

## Safety Data Sheet

according to Regulation (EC) No.1907/2006 (REACH), amended by COMMISSION REGULATION (EU) 2020/878

Product name : CUBIC-HV2 Pre-wash buffer

Date of revision : 08/May/2023

SDS No. : CUBIC\_HV2\_Pre\_wash\_buffer\_EU-1

Revision No. : 1

---

### Section 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier:

Product name: CUBIC-HV2 Pre-wash buffer

Product code (SDS NO): CUBIC\_HV2\_Pre\_wash\_buffer\_EU-1

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research reagent(3D immunostaining kit)

Uses advised against: Research purpose only

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: CUBICStars, Inc.

Address: 1-1, Hyakunen Koen, Kurume City, Fukuoka, 839-0864 Japan

Telephone number: \*\*\*\*\*

FAX: \*\*\*\*\*

#### 1.4 Emergency telephone number: \*\*\*\*\*

---

### Section 2. Hazards identification

GHS classification and label elements of the product

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No.1272/2008 [CLP]

##### HEALTH HAZARDS

Acute toxicity (Oral): Category 4

Specific target organ toxicity – single exposure: Category 2

(Note) GHS classification without description: Not classified/Classification not possible

#### 2.2 Label elements

Labelling according to Regulation (EC) No.1272/2008 [CLP]



Signal word: Warning

##### HAZARD STATEMENT

H302 Harmful if swallowed

H371 May cause damage to organs

##### PRECAUTIONARY STATEMENT

###### Prevention

P260 Do not breathe mist/vapors/spray.

P264 Wash contaminated parts thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

###### Response

P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor/physician.

P330 Rinse mouth.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.

###### Storage

P405 Store locked up.

###### Disposal

P501 Dispose of contents/container in accordance with local/national regulation.

#### 2.3 Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

The product does not contain any ingredients designated as Endocrine disrupting properties.

Section 3. Composition/information on ingredients

Mixture/Substance selection:  
 3.2 Mixture

Ingredient name	CAS No.	Content (%)
<b>Classification according to REGULATION (EC) No.1272/2008 [CLP]</b>	<b>ECNO</b>	
Water	7732-18-5	90 - 95
-	231-791-2	
Methanol	67-56-1	5 - 10
Flam. Liq. 2, H225; Acute Tox. 3 *, H331; Acute Tox. 3 *, H311; Acute Tox. 3 *, H301; STOT SE 1, H370 ** [SCL's, M-Factors, ATE, Component notes] *;STOT SE 1; H370: C >= 10 %; STOT SE 2; H371: 3 % =< C < 10 %	200-659-6	
Sodium chloride	7647-14-5	0.1 - 1
-	231-598-3	
Sodium azide	26628-22-8	< 0.1
Acute Tox. 2 *, H300; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; EUH032	247-852-1	
Potassium dihydrogenorthophosphate	7778-77-0	< 0.1
-	231-913-4	
Potassium chloride	7447-40-7	< 0.1
-	231-211-8	
Disodium hydrogenorthophosphate	7558-79-4	< 0.1
-	231-448-7	

Note : The figures shown above are not the specifications of the product.

The components not described in this component table are not listed in Table 3 of Annex VI in EU CLP.

Components contributing to the hazard

The product does not contain any ingredients listed in REACH SVHC candidate list.

Full text of classifications and hazard statements: see section 16

Section 4. First-aid measures

4.1 Descriptions of first-aid measures

General measures

Show this SDS, the product container or label when getting medical attention/advice.

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN (or hair)

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF SWALLOWED

Rinse mouth.

Call a POISON CENTER/doctor/physician if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

4.3 Indication of any immediate medical attention and special treatment needed

Information on indication of any immediate medical attention and special treatment needed is not available.

---

## Section 5. Fire–fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

The product is non–flammable.

#### Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

### 5.2 Specific hazards arising from the substance or mixture

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

### 5.3 Advice for firefighters

#### Specific fire–fighting measures

Evacuate non–essential personnel to safe area.

Extinguish from the windward to the extent possible.

#### Special protective equipment and precautions for fire–fighters

Wear fire resistant or flame retardant clothing.

Firefighters should wear self–contained breathing apparatus with a full facepiece operated in the positive pressure mode.

---

## Section 6. Accidental release measures

### 6.1 Personnel precautions, protective equipment and emergency procedures

Keep unauthorized personnel away.

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Stop leak if safe to do so.

### 6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Do not wash away into sewers or waterway.

### 6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

For large spill, dike for later disposal.

Fill the disposal into labelled, closable containers.

### 6.4 Reference to other sections

Refer to section 8

Refer to section 13

---

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

#### Preventive measures

(Exposure Control for handling personnel)

Do not breathe mist/vapors/spray.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

#### Safety Measures

Use only outdoors or in a well–ventilated area.

Use personal protective equipment as required.

Any incompatibilities data is not available.

---

Advice on general occupational hygiene

- Do not get in eyes, on skin, or on clothing.
- Wash contaminated parts thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wash hands thoroughly after handling.

7.2 Storage

Conditions for safe storage

- Store in a well–ventilated place. Keep container tightly closed.
- Keep cool. Protect from sunlight.
- Store locked up.

Container and packaging materials for safe handling data is not available.

7.3 Specific end use(s)

- Research reagent(3D immunostaining kit)

---

Section 8. Exposure controls/personal protection

8.1 Control parameters

Adopted value

(Methanol)

ACGIH(2009) TWA: 200ppm;

STEL: 250ppm (Headache; eye dam; dizziness; nausea)

(Sodium azide)

ACGIH(1996) STEL: C (as Sodium azide) 0.29mg/m<sup>3</sup>; (as Hydrazoic acid vapor)

0.11ppm (Card impair; lung dam)

Notation

(Methanol)

Skin

EU Occupational exposure limit values (Workplace Exposure limits) compliant to relevant EU

Directive through 91/332/EEC to 2019/1831/EU

(Methanol)

LTEL: 260mg/m<sup>3</sup>; 200ppm (SKIN)

(Sodium azide)

LTEL: 0.1mg/m<sup>3</sup>

STEL: 0.3mg/m<sup>3</sup> (SKIN)

8.2 Exposure controls

Appropriate engineering controls

- Exhaust/ventilator should be available.
- Eye wash station should be available.
- Washing facilities should be available.

Individual protection measures

Respiratory protection

- In case of inadequate ventilation wear respiratory protection.

Hand protection

- Wear protective gloves. Recommended material(s): impermeable or chemical resistant rubber

Eye protection

- Wear safety glasses with side–shields or chemical safety goggle.

Skin and body protection

- Wear protective clothing.

---

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Clear

---

Odor: None  
Odor threshold data is not available.  
Melting point/Freezing point data is not available.  
Boiling point or initial boiling point data is not available.  
Boiling range data is not available.  
Flammability (gases, liquids and solids): Non-flammable  
Lower and upper explosion limit/flammability limit: Not applicable  
Flash point: Non-flammable  
Auto-ignition temperature: Not applicable  
Decomposition temperature data is not available.  
pH data is not available.  
Kinematic viscosity data is not available.  
Solubility:  
    Solubility in water: Soluble  
    Solubility in solvent data is not available.  
n-Octanol/water partition coefficient data is not available.  
Vapor pressure data is not available.  
Density and/or relative density data is not available.  
Relative vapor density (Air=1) data is not available.  
Particle characteristics: Not applicable

9.2 Other information  
    Other information is not available.

---

## Section 10. Stability and Reactivity

- 10.1 Reactivity  
    Reactivity data is not available.
- 10.2 Chemical stability  
    Stable under normal storage/handling conditions.
- 10.3 Possibility of hazardous reactions  
    Possibility of hazardous reactions data is not available.
- 10.4 Conditions to avoid  
    Conditions to avoid data is not available.
- 10.5 Incompatible materials  
    Incompatible materials data is not available.
- 10.6 Hazardous decomposition products  
    Hazardous decomposition products data is not available.

---

## Section 11. Toxicological Information

- 11.1 Information on toxicological effects
- Acute toxicity
- Acute toxicity (Oral)
- [Product]
- Category 4, Harmful if swallowed
- [Data for components of the product]
- [Table 3 of Annex VI to the CLP Regulations]
- (Methanol)
- Category 3
- (Sodium azide)
- Category 2
- Acute toxicity (Dermal)
- [Product]
- Classification not possible (Insufficient data available or no data available).

---

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Methanol)

Category 3

Acute toxicity (Inhalation)

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Methanol)

Category 3

Irritant properties

Skin corrosion/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Serious eye damage/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Sensitization

Respiratory sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Skin sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Germ cell mutagenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Carcinogenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[ACGIH]

(Sodium azide)

A4(1996) : Not Classifiable as a Human Carcinogen

Reproductive toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Specific target organ toxicity (STOT)

STOT–single exposure

[Product]

Category 2, May cause damage to organs

---

[Data for components of the product]

[cat.1]

[Table 3 of Annex VI to the CLP Regulations]

(Methanol)

No target organ information

STOT–repeated exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Aspiration hazard

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

11.2 Information on other hazards

Endocrine disrupting properties is not available.

---

## Section 12. Ecological Information

### 12.1 Toxicity

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

Hazardous to the aquatic environment, short–term (acute)

[Table 3 of Annex VI to the CLP Regulations]

(Sodium azide)

Category 1

Hazardous to the aquatic environment, long–term (chronic)

[Table 3 of Annex VI to the CLP Regulations]

(Sodium azide)

Category 1

Water solubility

(Methanol)

100 g/100 ml (PHYSPROP\_DB, 2009)

(Sodium azide)

good (41.7 g/100 ml, 17°C) (ICSC, 2014)

(Potassium dihydrogenorthophosphate)

22 g/100 ml (ICSC, 2005)

(Potassium chloride)

good (ICSC, 2003)

(Disodium hydrogenorthophosphate)

7.7 g/100 ml (20°C) (ICSC, 2006)

12.2 Persistence and degradability

[Data for components of the product]

(Sodium azide)

Degradation measured by HPLC: 1% (METI existing chemical safety inspections)

12.3 Bioaccumulative potential

[Data for components of the product]

(Methanol)

log Pow=–0.82/–0.66 (ICSC, 2000)

(Sodium azide)

log Pow <= 0.3 (Check & Review, Japan)

---

(Potassium chloride)  
log Kow=0.15 (PHYSPROP DB, 2005)  
(Disodium hydrogenorthophosphate)  
log Pow=–5.8 (ICSC, 2006)

12.4 Mobility in soil

Mobility in soil data is not available.

12.5 Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

12.6 Endocrine disrupting properties

Endocrine disrupting properties is not available.

12.7 Other adverse effects

Ozone depleting chemical data is not available.

---

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

Dispose to an authorized waste collection point.

Do not dump into sewers, on the ground or into any body of water.

Contaminated packing

Dispose of container after using the contents completely.

---

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

---

IATA (Dangerous Goods Regulations)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable
- 14.5 Environmental hazards
  - Marine pollutants (yes/no) : no
- 14.6 Special precautions for user
  - Special precautions for user is not applicable.
- 14.7 Maritime transport in bulk according to IMO instruments
  - This product is not intended to be carried in bulk.

---

Section 15. Regulatory Information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
  - The product does not contain any ingredients listed in REACH SVHC candidate list.
  - Other information is not available.
- Other regulatory information
  - Ensure this material in compliance with federal requirements and ensure conformity to local regulations.
- 15.2 Chemical safety assessment
  - Advice on safe handling for this product can be found in sections 7 and 8 of this SDS.

---

Section 16. Other information

GHS classification and labelling

Acute toxicity, Category 4: H302 Harmful if swallowed

STOT – single exposure, Category 2: H371 May cause damage to organs

Full text of Hazard categories and Hazard statements referred to only section 3

Flam. Liq. 2, H225 – Flammable liquids, Category 2: H225 Highly flammable liquid and vapour

Acute Tox. 2, H300 – Acute toxicity, Category 2: H300 Fatal if swallowed

Acute Tox. 3, H301 – Acute toxicity, Category 3: H301 Toxic if swallowed

Acute Tox. 3, H311 – Acute toxicity, Category 3: H311 Toxic in contact with skin

Acute Tox. 3, H331 – Acute toxicity, Category 3: H331 Toxic if inhaled

STOT SE 1, H370 – STOT – single exposure, Category 1: H370 Causes damage to organs

Aquatic Acute 1, H400 – Hazardous to the aquatic environment, short-term (acute), Category 1:

H400 Very toxic to aquatic life

Aquatic Chronic 1, H410 – Hazardous to the aquatic environment, long-term (chronic), Category 1:

H410 Very toxic to aquatic life with long lasting effects

EUH032 – Contact with acids liberates very toxic gas.

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN

IMDG Code, 2020 Edition (Incorporating Amendment 40–20)

IATA Dangerous Goods Regulations (64th Edition) 2023

EU REGULATION (EC) No. 1272/2008 (CLP), amended by COMMISSION REGULATION (EU) 2019/521

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2022 TLVs and BEIs. (ACGIH)

Supplier's data/information

GESTIS–Stoffdatenbank

Pub Chem (OPEN CHEMISTRY DATABASE)

Abbreviations and acronyms

ACGIH – American Conference of Governmental Industrial Hygienists;

ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;

---

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road;  
ATE – Acute Toxicity Estimate; BCF – Bioconcentration Factor; BOD – Biochemical Oxygen Demand;  
Cat. – Category; Ceiling–C – Ceiling value;  
CLP – Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures;  
COD – Chemical Oxygen Demand; DSEN – Dermal Sensitization;  
EC No. – The European Community number; EC50 – Effective Concentration 50; EU – European Union;  
GHS – Globally Harmonized System of Classification and Labelling of Chemicals;  
IARC – International Agency for Research on Cancer; IATA – International Air Transport Association;  
IBC Code – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;  
IMDG Code – International Maritime Dangerous Goods Code; LC50 – Lethal Concentration 50;  
LD50 – Lethal Dose 50; logPow – n–Octanol/water Partition Coefficient;  
LTEL – eight–hour time weighted average;  
MARPOL – International Convention for the Prevention of Pollution from Ships;  
M–factor – Multiplying factors; NOEC – No Observed Effect Concentration;  
NTP – National Toxicology Program; PBT – Persistent, Bioaccumulative and Toxic substances;  
REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No.1907/2006;  
RID – Regulation concerning the International Carriage of Dangerous goods by Rail;  
RSEN – Respiratory Sensitization; SCL – Specific Concentration Limit;  
Skin – Danger of cutaneous absorption; STEL – Short–term Exposure Limit;  
STOT – Specific target organ toxicity; SVHC – Substance of Very High Concern;  
TWA – time–weighted average; UN – United Nations;  
vPvB – Very Persistent and very Bioaccumulative substances  
C – Ceiling limit; card – cardiac; dam – damage; impair – impairment

#### General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety. The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 17/12/2022 and Commission delegated regulation (EU) 2022/692 (ATP18)).

## Safety Data Sheet

according to Regulation (EC) No.1907/2006 (REACH), amended by COMMISSION REGULATION (EU) 2020/878

Product name : CUBIC-HV2 Staining buffer

Date of revision : 01/Dec/2023

SDS No. : CUBIC\_HV2\_Staining\_buffer\_EU-1

Revision No. : 1

### Section 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier:

Product name: CUBIC-HV2 Staining buffer

Product code (SDS NO): CUBIC\_HV2\_Staining\_buffer\_EU-1

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research reagent (3D immunostaining kit)

Uses advised against: Research purpose only

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: CUBICStars, Inc.

Address: 1-1, Hyakunen Koen, Kurume City, Fukuoka, 839-0864 Japan

Telephone number: \*\*\*\*\*

FAX: \*\*\*\*\*

#### 1.4 Emergency telephone number: \*\*\*\*\*

### Section 2. Hazards identification

GHS classification and label elements of the product

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No.1272/2008 [CLP]

Not classified/Classification not possible

#### 2.2 Label elements

Labelling according to Regulation (EC) No.1272/2008 [CLP]

No GHS label element

No Signal word

#### 2.3 Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

The product does not contain any ingredients designated as Endocrine disrupting properties.

### Section 3. Composition/information on ingredients

Mixture/Substance selection:

#### 3.2 Mixture

Ingredient name	CAS No.	Content (%)
<b>Classification according to REGULATION (EC) No.1272/2008 [CLP]</b>	<b>ECNO</b>	
Sodium chloride	7647-14-5	5 - 10
-	231-598-3	
HEPES	7365-45-9	0.1 - 1
-	230-907-9	
Sodium azide	26628-22-8	< 0.1
Acute Tox. 2 *, H300; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; EUH032	247-852-1	

Note : The figures shown above are not the specifications of the product.

The components not described in this component table are not listed in Table 3 of Annex VI in EU CLP.

Components contributing to the hazard

The product does not contain any ingredients listed in REACH SVHC candidate list.

Full text of classifications and hazard statements: see section 16

---

#### Section 4. First-aid measures

##### 4.1 Descriptions of first-aid measures

###### General measures

Show this SDS, the product container or label when getting medical attention/advice.

###### IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

###### IF ON SKIN (or hair)

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

###### IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

###### IF SWALLOWED

Rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTER/doctor/physician.

##### 4.2 Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

##### 4.3 Indication of any immediate medical attention and special treatment needed

Information on indication of any immediate medical attention and special treatment needed is not available.

---

#### Section 5. Fire-fighting measures

##### 5.1 Extinguishing media

###### Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

The product is non-flammable.

###### Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

##### 5.2 Specific hazards arising from the substance or mixture

Fire may produce irritating, corrosive and/or toxic gases.

##### 5.3 Advice for firefighters

###### Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Extinguish from the windward to the extent possible.

###### Special protective equipment and precautions for fire-fighters

Wear fire resistant or flame retardant clothing.

Firefighters should wear self-contained breathing apparatus with a full facepiece operated in the positive pressure mode.

---

#### Section 6. Accidental release measures

##### 6.1 Personnel precautions, protective equipment and emergency procedures

Keep unauthorized personnel away.

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Stop leak if safe to do so.

##### 6.2 Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Do not wash away into sewers or waterway.

---

### 6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.  
For large spill, dike for later disposal.  
Fill the disposal into labelled, closable containers.

### 6.4 Reference to other sections

Refer to section 8  
Refer to section 13

---

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

#### Preventive measures

(Exposure Control for handling personnel)

Avoid breathing mist/vapors/spray.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

#### Safety Measures

Use only outdoors or in a well-ventilated area.

Use personal protective equipment as required.

Any incompatibilities data is not available.

#### Advice on general occupational hygiene

Do not get in eyes, on skin, or on clothing.

Do not eat, drink or smoke when using this product.

Wash contaminated clothing before reuse.

Wash hands thoroughly after handling.

### 7.2 Storage

#### Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

Container and packaging materials for safe handling data is not available.

### 7.3 Specific end use(s)

Research reagent (3D immunostaining kit)

---

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Adopted value

(Sodium azide)

ACGIH(1996) STEL: C (as Sodium azide) 0.29 mg/m<sup>3</sup>;

(as Hydrazoic acid vapor) 0.11 ppm (Card impair; lung dam)

EU Occupational exposure limit values (Workplace Exposure limits) compliant to relevant EU

Directive through 91/332/EEC to 2019/1831/EU

(Sodium azide)

LTEL: 0.1 mg/m<sup>3</sup>

STEL: 0.3 mg/m<sup>3</sup> (SKIN)

### 8.2 Exposure controls

#### Appropriate engineering controls

Exhaust/ventilator should be available.

Eye wash station should be available.

Washing facilities should be available.

---

Individual protection measures

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

Wear protective gloves. Recommended material(s): impermeable or chemical resistant rubber

Eye protection

Wear safety glasses with side–shields or chemical safety goggle.

Skin and body protection

Wear protective clothing.

---

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Clear

Odor: None

Odor threshold data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids): Non–flammable

Lower and upper explosion limit/flammability limit: Not applicable

Flash point: Non–flammable

Auto–ignition temperature: Not applicable

Decomposition temperature data is not available.

pH data is not available.

Kinematic viscosity data is not available.

Solubility:

Solubility in water: Soluble

Solubility in solvent data is not available.

n–Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density data is not available.

Relative vapor density (Air=1) data is not available.

Particle characteristics: Not applicable

9.2 Other information

Other information is not available.

---

Section 10. Stability and Reactivity

10.1 Reactivity

Reactivity data is not available.

10.2 Chemical stability

Stable under normal storage/handling conditions.

10.3 Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

10.4 Conditions to avoid

Conditions to avoid data is not available.

10.5 Incompatible materials

Incompatible materials data is not available.

10.6 Hazardous decomposition products

Hazardous decomposition products data is not available.

---

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Acute toxicity (Oral)

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[Table 3 of Annex VI to the CLP Regulations]

(Sodium azide)

Category 2

##### Acute toxicity (Dermal)

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

##### Acute toxicity (Inhalation)

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

#### Irritant properties

##### Skin corrosion/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

##### Serious eye damage/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

#### Sensitization

##### Respiratory sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

##### Skin sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

#### Germ cell mutagenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

#### Carcinogenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

[ACGIH]

(Sodium azide)

A4(1996) : Not Classifiable as a Human Carcinogen

---

Reproductive toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Specific target organ toxicity (STOT)

STOT–single exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

STOT–repeated exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Aspiration hazard

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

11.2 Information on other hazards

Endocrine disrupting properties is not available.

---

Section 12. Ecological Information

12.1 Toxicity

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

Hazardous to the aquatic environment, short–term (acute)

[Table 3 of Annex VI to the CLP Regulations]

(Sodium azide)

Category 1

Hazardous to the aquatic environment, long–term (chronic)

[Table 3 of Annex VI to the CLP Regulations]

(Sodium azide)

Category 1

Water solubility

(Sodium azide)

good (41.7 g/100 mL, 17°C) (ICSC, 2014)

12.2 Persistence and degradability

[Data for components of the product]

(Sodium azide)

Degradation measured by HPLC: 1% (METI existing chemical safety inspections)

12.3 Bioaccumulative potential

[Data for components of the product]

(Sodium azide)

log Pow <= 0.3 (Check & Review, Japan)

12.4 Mobility in soil

Mobility in soil data is not available.

12.5 Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

---

12.6 Endocrine disrupting properties

Endocrine disrupting properties is not available.

12.7 Other adverse effects

Ozone depleting chemical data is not available.

---

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

Dispose to an authorized waste collection point.

Do not dump into sewers, on the ground or into any body of water.

Contaminated packing

Dispose of container after using the contents completely.

---

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

14.3 Class or division (Transport hazard class) : Not regulated

14.4 Packing group : Not regulated

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

14.3 Class or division (Transport hazard class) : Not regulated

14.4 Packing group : Not regulated

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

14.3 Class or division (Transport hazard class) : Not regulated

14.4 Packing group : Not regulated

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

14.3 Class or division (Transport hazard class) : Not regulated

14.4 Packing group : Not regulated

IMDG Code (International Maritime Dangerous Goods Regulations)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

14.3 Class or division (Transport hazard class) : Not regulated

14.4 Packing group : Not regulated

IATA (Dangerous Goods Regulations)

14.1 UN Number or ID Number : Not regulated

14.2 UN Proper Shipping Name : Not regulated

14.3 Class or division (Transport hazard class) : Not regulated

14.4 Packing group : Not regulated

14.5 Environmental hazards

Marine pollutants (yes/no) : no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

This product is not intended to be carried in bulk.

---

## Section 15. Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The product does not contain any ingredients listed in REACH SVHC candidate list.

Other information is not available.

### Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

### 15.2 Chemical safety assessment

Advice on safe handling for this product can be found in sections 7 and 8 of this SDS.

---

## Section 16. Other information

### GHS classification and labelling

Not classified/Classification not possible

Full text of Hazard categories and Hazard statements referred to only section 3

Acute Tox. 2, H300 – Acute toxicity, Category 2:

H300 Fatal if swallowed

Aquatic Acute 1, H400 – Hazardous to the aquatic environment, short-term (acute), Category 1:

H400 Very toxic to aquatic life

Aquatic Chronic 1, H410 – Hazardous to the aquatic environment, long-term (chronic), Category 1:

H410 Very toxic to aquatic life with long lasting effects

EUH032 – Contact with acids liberates very toxic gas.

### References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN

IMDG Code, 2020 Edition (Incorporating Amendment 40–20)

IATA Dangerous Goods Regulations (64th Edition) 2023

ADR (2023), ADN (2021), RID (2023)

EU REGULATION (EC) No. 1272/2008 (CLP), amended by COMMISSION REGULATION (EU) 2019/521

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2023 TLVs and BEIs. (ACGIH)

Supplier's data/information

GESTIS–Stoffdatenbank

Pub Chem (OPEN CHEMISTRY DATABASE)

### Abbreviations and acronyms

ACGIH – American Conference of Governmental Industrial Hygienists;

ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road;

ATE – Acute Toxicity Estimate; BCF – Bioconcentration Factor; BOD – Biochemical Oxygen Demand;

Cat. – Category; Ceiling–C – Ceiling value;

CLP – Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures;

COD – Chemical Oxygen Demand; DSEN – Dermal Sensitization;

EC No. – The European Community number; EC50 – Effective Concentration 50; EU – European Union;

GHS – Globally Harmonized System of Classification and Labelling of Chemicals;

IARC – International Agency for Research on Cancer; IATA – International Air Transport Association;

IBC Code – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;

IMDG Code – International Maritime Dangerous Goods Code; LC50 – Lethal Concentration 50;

LD50 – Lethal Dose 50; logPow – n–Octanol/water Partition Coefficient;

LTCL – eight–hour time weighted average;

MARPOL – International Convention for the Prevention of Pollution from Ships;

M–factor – Multiplying factors; NOEC – No Observed Effect Concentration;

NTP – National Toxicology Program; PBT – Persistent, Bioaccumulative and Toxic substances;

---

REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No.1907/2006;  
RID – Regulation concerning the International Carriage of Dangerous goods by Rail;  
RSEN – Respiratory Sensitization; SCL – Specific Concentration Limit;  
Skin – Danger of cutaneous absorption; STEL – Short-term Exposure Limit;  
STOT – Specific target organ toxicity; SVHC – Substance of Very High Concern;  
TWA – time-weighted average; UN – United Nations;  
vPvB – Very Persistent and very Bioaccumulative substances;  
C – Ceiling limit; card – cardiac; dam – damage; impair – impairment

**General Disclaimer**

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety. The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 17/12/2022 and Commission delegated regulation (EU) 2022/692 (ATP18)).

## Safety Data Sheet

according to Regulation (EC) No.1907/2006 (REACH), amended by COMMISSION REGULATION (EU) 2020/878

Product name : CUBIC-HV2 Wash Buffer

Date of revision : 08/May/2023

SDS No. : CUBIC\_HV2\_Wash\_Buffer\_EU-1

Revision No. : 1

---

### Section 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier:

Product name: CUBIC-HV2 Wash Buffer

Product code (SDS NO): CUBIC\_HV2\_Wash\_Buffer\_EU-1

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research reagent(3D immunostaining kit)

Uses advised against: Research purpose only

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: CUBICStars, Inc.

Address: 1-1, Hyakunen Koen, Kurume City, Fukuoka, 839-0864 Japan

Telephone number: \*\*\*\*\*

FAX: \*\*\*\*\*

#### 1.4 Emergency telephone number: \*\*\*\*\*

---

### Section 2. Hazards identification

GHS classification and label elements of the product

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No.1272/2008 [CLP]

Not classified/Classification not possible

#### 2.2 Label elements

Labelling according to Regulation (EC) No.1272/2008 [CLP]

No GHS label element

No Signal word

#### 2.3 Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

The product does not contain any ingredients designated as Endocrine disrupting properties.

---

### Section 3. Composition/information on ingredients

Mixture/Substance selection:

#### 3.2 Mixture

This product doesn't contain any substances listed in Table 3 of Annex VI in EU CLP.

Components contributing to the hazard

The product does not contain any ingredients listed in REACH SVHC candidate list.

Full text of classifications and hazard statements: see section 16

---

### Section 4. First-aid measures

#### 4.1 Descriptions of first-aid measures

General measures

Show this SDS, the product container or label when getting medical attention/advice.

**IF INHALED**

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

**IF ON SKIN (or hair)**

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

---

**IF IN EYES**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

**IF SWALLOWED**

Rinse mouth.  
Call a POISON CENTER/doctor/physician if you feel unwell.

**4.2 Most important symptoms and effects, both acute and delayed**

Specific information on symptom and effect are unknown.

**4.3 Indication of any immediate medical attention and special treatment needed**

Information on indication of any immediate medical attention and special treatment needed is not available.

---

**Section 5. Fire–fighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Use appropriate extinguishing media suitable for surrounding facilities.

The product is non–flammable.

**Unsuitable extinguishing media**

Unsuitable extinguishing media data is not available.

**5.2 Specific hazards arising from the substance or mixture**

Fire may produce irritating, corrosive and/or toxic gases.

**5.3 Advice for firefighters**

**Specific fire–fighting measures**

Evacuate non–essential personnel to safe area.

Extinguish from the windward to the extent possible.

**Special protective equipment and precautions for fire–fighters**

Wear fire resistant or flame retardant clothing.

Firefighters should wear self–contained breathing apparatus with a full facepiece operated in the positive pressure mode.

---

**Section 6. Accidental release measures**

**6.1 Personnel precautions, protective equipment and emergency procedures**

Keep unauthorized personnel away.

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Stop leak if safe to do so.

**6.2 Environmental precautions**

Prevent spills from entering sewers, watercourses or low areas.

Do not wash away into sewers or waterway.

**6.3 Methods and materials for containment and cleaning up**

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

For large spill, dike for later disposal.

Fill the disposal into labelled, closable containers.

**6.4 Reference to other sections**

Refer to section 8

Refer to section 13

---

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

#### Preventive measures

(Exposure Control for handling personnel)

Avoid breathing mist/vapors/spray.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

#### Safety Measures

Use personal protective equipment as required.

Any incompatibilities data is not available.

Advice on general occupational hygiene

Do not get in eyes, on skin, or on clothing.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

### 7.2 Storage

Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

Container and packaging materials for safe handling data is not available.

### 7.3 Specific end use(s)

Research reagent(3D immunostaining kit)

---

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

Adopted value

Adopted value in ACGIH is not available.

EU OEL value is not available.

### 8.2 Exposure controls

Appropriate engineering controls

Exhaust/ventilator should be available.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

Wear protective gloves. Recommended material(s): impermeable or chemical resistant rubber

Eye protection

Wear safety glasses with side-shields or chemical safety goggle.

Skin and body protection

Wear protective clothing.

---

## Section 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Clear

Odor: None

Odor threshold data is not available.

Melting point/Freezing point data is not available.

---

Boiling point or initial boiling point data is not available.  
Boiling range data is not available.  
Flammability (gases, liquids and solids): Non–flammable  
Lower and upper explosion limit/flammability limit: Not applicable  
Flash point: Non–flammable  
Auto–ignition temperature: Not applicable  
Decomposition temperature data is not available.  
pH data is not available.  
Kinematic viscosity data is not available.  
Solubility:  
    Solubility in water: Soluble  
    Solubility in solvent data is not available.  
n–Octanol/water partition coefficient data is not available.  
Vapor pressure data is not available.  
Density and/or relative density data is not available.  
Relative vapor density (Air=1) data is not available.  
Particle characteristics: Not applicable

9.2 Other information  
    Other information is not available.

---

## Section 10. Stability and Reactivity

- 10.1 Reactivity  
    Reactivity data is not available.
- 10.2 Chemical stability  
    Stable under normal storage/handling conditions.
- 10.3 Possibility of hazardous reactions  
    Possibility of hazardous reactions data is not available.
- 10.4 Conditions to avoid  
    Conditions to avoid data is not available.
- 10.5 Incompatible materials  
    Incompatible materials data is not available.
- 10.6 Hazardous decomposition products  
    Hazardous decomposition products data is not available.

---

## Section 11. Toxicological Information

- 11.1 Information on toxicological effects
- Acute toxicity
- Acute toxicity (Oral)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.
- Acute toxicity (Dermal)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.
- Acute toxicity (Inhalation)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.

Irritant properties

Skin corrosion/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Serious eye damage/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Sensitization

Respiratory sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Skin sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Germ cell mutagenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Carcinogenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Reproductive toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Specific target organ toxicity (STOT)

STOT–single exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

STOT–repeated exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Aspiration hazard

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

---

11.2 Information on other hazards

Endocrine disrupting properties is not available.

---

Section 12. Ecological Information

12.1 Toxicity

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

12.2 Persistence and degradability

Persistence and degradability data is not available.

12.3 Bioaccumulative potential

Bioaccumulative potential data is not available.

12.4 Mobility in soil

Mobility in soil data is not available.

12.5 Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

12.6 Endocrine disrupting properties

Endocrine disrupting properties is not available.

12.7 Other adverse effects

Ozone depleting chemical data is not available.

---

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

Dispose to an authorized waste collection point.

Do not dump into sewers, on the ground or into any body of water.

Contaminated packing

Dispose of container after using the contents completely.

---

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

---

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

IMDG Code (International Maritime Dangerous Goods Regulations)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

IATA (Dangerous Goods Regulations)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

14.5 Environmental hazards

Marine pollutants (yes/no) : no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

This product is not intended to be carried in bulk.

---

Section 15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The product does not contain any ingredients listed in REACH SVHC candidate list.

Other information is not available.

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

15.2 Chemical safety assessment

Advice on safe handling for this product can be found in sections 7 and 8 of this SDS.

---

Section 16. Other information

GHS classification and labelling

Not classified/Classification not possible

References and sources for data

- Globally Harmonized System of classification and labelling of chemicals, UN
- Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN
- IMDG Code, 2020 Edition (Incorporating Amendment 40–20)
- IATA Dangerous Goods Regulations (64th Edition) 2023
- EU REGULATION (EC) No. 1272/2008 (CLP), amended by COMMISSION REGULATION (EU) 2019/521
- 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
- 2022 TLVs and BEIs. (ACGIH)
- Supplier's data/information
- GESTIS–Stoffdatenbank
- Pub Chem (OPEN CHEMISTRY DATABASE)

Abbreviations and acronyms

- ACGIH – American Conference of Governmental Industrial Hygienists;
- ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;
- ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road;
- ATE – Acute Toxicity Estimate; BCF – Bioconcentration Factor; BOD – Biochemical Oxygen Demand;
- Cat. – Category; Ceiling–C – Ceiling value;

---

CLP – Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures;  
COD – Chemical Oxygen Demand; DSEN – Dermal Sensitization;  
EC No. – The European Community number; EC50 – Effective Concentration 50; EU – European Union;  
GHS – Globally Harmonized System of Classification and Labelling of Chemicals;  
IARC – International Agency for Research on Cancer; IATA – International Air Transport Association;  
IBC Code – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;  
IMDG Code – International Maritime Dangerous Goods Code; LC50 – Lethal Concentration 50;  
LD50 – Lethal Dose 50; logPow – n-Octanol/water Partition Coefficient;  
LTEL – eight-hour time weighted average;  
MARPOL – International Convention for the Prevention of Pollution from Ships;  
M-factor – Multiplying factors; NOEC – No Observed Effect Concentration;  
NTP – National Toxicology Program; PBT – Persistent, Bioaccumulative and Toxic substances;  
REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No.1907/2006;  
RID – Regulation concerning the International Carriage of Dangerous goods by Rail;  
RSEN – Respiratory Sensitization; SCL – Specific Concentration Limit;  
Skin – Danger of cutaneous absorption; STEL – Short-term Exposure Limit;  
STOT – Specific target organ toxicity; SVHC – Substance of Very High Concern;  
TWA – time-weighted average; UN – United Nations;  
vPvB – Very Persistent and very Bioaccumulative substances

#### General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety. The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 17/12/2022 and Commission delegated regulation (EU) 2022/692 (ATP18)).

## Safety Data Sheet

according to Regulation (EC) No.1907/2006 (REACH), amended by COMMISSION REGULATION (EU) 2020/878

Product name : CUBIC\_HV2\_Wrapping reagent

Date of revision : 08/May/2023

SDS No. : CUBIC\_HV2\_HV\_ Wrapping\_reagent\_EU-1

Revision No. : 1

---

### Section 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier:

Product name: CUBIC\_HV2\_Wrapping reagent

Product code (SDS NO): CUBIC\_HV2\_HV\_ Wrapping\_reagent\_EU-1

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research reagent(3D immunostaining kit)

Uses advised against: Research purpose only

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: CUBICStars, Inc.

Address: 1-1, Hyakunen Koen, Kurume City, Fukuoka, 839-0864 Japan

Telephone number: \*\*\*\*\*

FAX: \*\*\*\*\*

#### 1.4 Emergency telephone number: \*\*\*\*\*

---

### Section 2. Hazards identification

GHS classification and label elements of the product

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No.1272/2008 [CLP]

Not classified/Classification not possible

#### 2.2 Label elements

Labelling according to Regulation (EC) No.1272/2008 [CLP]

No GHS label element

No Signal word

#### 2.3 Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

The product does not contain any ingredients designated as Endocrine disrupting properties.

---

### Section 3. Composition/information on ingredients

Mixture/Substance selection:

#### 3.1 Substance

This product doesn't contain any substances listed in Table 3 of Annex VI in EU CLP.

Components contributing to the hazard

The product does not contain any ingredients listed in REACH SVHC candidate list.

Full text of classifications and hazard statements: see section 16

---

### Section 4. First-aid measures

#### 4.1 Descriptions of first-aid measures

General measures

Show this SDS, the product container or label when getting medical attention/advice.

**IF INHALED**

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

**IF ON SKIN (or hair)**

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

---

**IF IN EYES**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

**IF SWALLOWED**

Rinse mouth.  
Call a POISON CENTER/doctor/physician if you feel unwell.

**4.2 Most important symptoms and effects, both acute and delayed**

Specific information on symptom and effect are unknown.

**4.3 Indication of any immediate medical attention and special treatment needed**

Information on indication of any immediate medical attention and special treatment needed is not available.

---

**Section 5. Fire–fighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

In case of fire, use water mist, foam, dry powder, CO2 to extinguish.

**Unsuitable extinguishing media**

Do not use direct water jet.

**5.2 Specific hazards arising from the substance or mixture**

Fire may produce irritating, corrosive and/or toxic gases.

**5.3 Advice for firefighters**

**Specific fire–fighting measures**

Evacuate non–essential personnel to safe area.  
Move containers from fire area if this can be done without risk.  
Extinguish from the windward to the extent possible.

**Special protective equipment and precautions for fire–fighters**

Wear fire resistant or flame retardant clothing.  
Firefighters should wear self–contained breathing apparatus with a full facepiece operated in the positive pressure mode.

---

**Section 6. Accidental release measures**

**6.1 Personnel precautions, protective equipment and emergency procedures**

Keep unauthorized personnel away.  
Wear proper protective equipment.  
Eliminate all sources of ignition and ventilate the area.

**6.2 Environmental precautions**

Prevent spills from entering sewers, watercourses or low areas.  
Do not wash away into sewers or waterway.

**6.3 Methods and materials for containment and cleaning up**

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.  
For large spill, dike for later disposal.  
Fill the disposal into labelled, closable containers.

**6.4 Reference to other sections**

Refer to section 8  
Refer to section 13

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

#### Preventive measures

(Exposure Control for handling personnel)

Avoid breathing mist/vapors/spray.

(Protective measures against fire and explosion)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

#### Safety Measures

Use only outdoors or in a well-ventilated area.

Use personal protective equipment as required.

#### Any incompatibilities

Strong oxidizing agents should not be mixed with the chemicals.

#### Advice on general occupational hygiene

Do not get in eyes, on skin, or on clothing.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

### 7.2 Storage

#### Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

(Incompatible storage condition)

Avoid direct sunlight, heat and sources of ignition (flames, sparks, etc.).

#### Container and packaging materials for safe handling

Keep only in original packaging.

### 7.3 Specific end use(s)

Research reagent(3D immunostaining kit)

---

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Adopted value

Adopted value in ACGIH is not available.

EU OEL value is not available.

### 8.2 Exposure controls

#### Appropriate engineering controls

Exhaust/ventilator should be available.

Eye wash station should be available.

Washing facilities should be available.

#### Individual protection measures

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

##### Hand protection

Wear protective gloves. Recommended material(s): impermeable or chemical resistant rubber

##### Eye protection

Wear safety glasses with side-shields or chemical safety goggle.

##### Skin and body protection

Wear protective clothing.

---

## Section 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Clear

Odor: None

Odor threshold data is not available.

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids): Combustible

Lower and upper explosion limit/flammability limit data is not available.

Flash point: (O.C.) >300°C

(C.C.) >94°C

Auto-ignition temperature: ca. 400°C

Decomposition temperature data is not available.

pH data is not available.

Kinematic viscosity: 100mm<sup>2</sup>/s (25°C)

Solubility:

Solubility in water: Insoluble

Solubility in solvent data is not available.

n-Octanol/water partition coefficient data is not available.

Vapor pressure: trace (25°C)

Density and/or relative density: 0.97 (25°C)

Relative vapor density (Air=1) data is not available.

Particle characteristics: Not applicable

### 9.2 Other information

Other information is not available.

---

## Section 10. Stability and Reactivity

### 10.1 Reactivity

Reactivity data is not available.

### 10.2 Chemical stability

Stable under normal storage/handling conditions.

### 10.3 Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

### 10.4 Conditions to avoid

Avoid direct sunlight, heat and sources of ignition (flames, sparks, etc.).

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Trace amounts of formaldehyde are gradually formed when heated above 150°C in an air atmosphere.

---

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Acute toxicity (Dermal)

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Acute toxicity (Inhalation)

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Irritant properties

Skin corrosion/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Serious eye damage/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Sensitization

Respiratory sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Skin sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Germ cell mutagenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Carcinogenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Reproductive toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Specific target organ toxicity (STOT)

STOT–single exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

---

STOT–repeated exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Aspiration hazard

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

11.2 Information on other hazards

Endocrine disrupting properties is not available.

---

Section 12. Ecological Information

12.1 Toxicity

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

12.2 Persistence and degradability

Persistence and degradability data is not available.

12.3 Bioaccumulative potential

Bioaccumulative potential data is not available.

12.4 Mobility in soil

Mobility in soil data is not available.

12.5 Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

12.6 Endocrine disrupting properties

Endocrine disrupting properties is not available.

12.7 Other adverse effects

Ozone depleting chemical data is not available.

---

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

Dispose to an authorized waste collection point.

Do not dump into sewers, on the ground or into any body of water.

Contaminated packing

Dispose of container after using the contents completely.

---

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

---

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

IMDG Code (International Maritime Dangerous Goods Regulations)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

IATA (Dangerous Goods Regulations)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

14.5 Environmental hazards

Marine pollutants (yes/no) : no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

This product is not intended to be carried in bulk.

---

Section 15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The product does not contain any ingredients listed in REACH SVHC candidate list.

Other information is not available.

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

15.2 Chemical safety assessment

Advice on safe handling for this product can be found in sections 7 and 8 of this SDS.

---

Section 16. Other information

GHS classification and labelling

Not classified/Classification not possible

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN

IMDG Code, 2020 Edition (Incorporating Amendment 40–20)

IATA Dangerous Goods Regulations (64th Edition) 2023

EU REGULATION (EC) No. 1272/2008 (CLP), amended by COMMISSION REGULATION (EU) 2019/521

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2022 TLVs and BEIs. (ACGIH)

---

Supplier's data/information  
GESTIS–Stoffdatenbank  
Pub Chem (OPEN CHEMISTRY DATABASE)

Abbreviations and acronyms

ACGIH – American Conference of Governmental Industrial Hygienists;  
ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;  
ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road;  
ATE – Acute Toxicity Estimate; BCF – Bioconcentration Factor; BOD – Biochemical Oxygen Demand;  
Cat. – Category; Ceiling–C – Ceiling value;  
CLP – Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures;  
COD – Chemical Oxygen Demand; DSEN – Dermal Sensitization;  
EC No. – The European Community number; EC50 – Effective Concentration 50; EU – European Union;  
GHS – Globally Harmonized System of Classification and Labelling of Chemicals;  
IARC – International Agency for Research on Cancer; IATA – International Air Transport Association;  
IBC Code – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;  
IMDG Code – International Maritime Dangerous Goods Code; LC50 – Lethal Concentration 50;  
LD50 – Lethal Dose 50; logPow – n–Octanol/water Partition Coefficient;  
LTEL – eight–hour time weighted average;  
MARPOL – International Convention for the Prevention of Pollution from Ships;  
M–factor – Multiplying factors; NOEC – No Observed Effect Concentration;  
NTP – National Toxicology Program; PBT – Persistent, Bioaccumulative and Toxic substances;  
REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No.1907/2006;  
RID – Regulation concerning the International Carriage of Dangerous goods by Rail;  
RSEN – Respiratory Sensitization; SCL – Specific Concentration Limit;  
Skin – Danger of cutaneous absorption; STEL – Short–term Exposure Limit;  
STOT – Specific target organ toxicity; SVHC – Substance of Very High Concern;  
TWA – time–weighted average; UN – United Nations;  
vPvB – Very Persistent and very Bioaccumulative substances

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety. The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 17/12/2022 and Commission delegated regulation (EU) 2022/692 (ATP18)).

## Safety Data Sheet

according to Regulation (EC) No.1907/2006 (REACH), amended by COMMISSION REGULATION (EU) 2020/878

Product name : CUBIC-HV2 Additive A

Date of revision : 08/May/2023

SDS No. : CUBIC\_HV2\_Additive\_A\_EU-1

Revision No. : 1

---

### Section 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier:

Product name: CUBIC-HV2 Additive A

Product code (SDS NO): CUBIC\_HV2\_Additive\_A\_EU-1

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research reagent(3D immunostaining kit)

Uses advised against: Research purpose only

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: CUBICStars, Inc.

Address: 1-1, Hyakunen Koen, Kurume City, Fukuoka, 839-0864 Japan

Telephone number: \*\*\*\*\*

FAX: \*\*\*\*\*

#### 1.4 Emergency telephone number: \*\*\*\*\*

---

### Section 2. Hazards identification

GHS classification and label elements of the product

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No.1272/2008 [CLP]

Not classified/Classification not possible

#### 2.2 Label elements

Labelling according to Regulation (EC) No.1272/2008 [CLP]

No GHS label element

No Signal word

#### 2.3 Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

The product does not contain any ingredients designated as Endocrine disrupting properties.

---

### Section 3. Composition/information on ingredients

Mixture/Substance selection:

#### 3.2 Mixture

This product doesn't contain any substances listed in Table 3 of Annex VI in EU CLP.

Components contributing to the hazard

The product does not contain any ingredients listed in REACH SVHC candidate list.

Full text of classifications and hazard statements: see section 16

---

### Section 4. First-aid measures

#### 4.1 Descriptions of first-aid measures

General measures

Show this SDS, the product container or label when getting medical attention/advice.

**IF INHALED**

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

**IF ON SKIN (or hair)**

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

---

**IF IN EYES**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

**IF SWALLOWED**

Rinse mouth.  
Call a POISON CENTER/doctor/physician if you feel unwell.

**4.2 Most important symptoms and effects, both acute and delayed**

Specific information on symptom and effect are unknown.

**4.3 Indication of any immediate medical attention and special treatment needed**

Information on indication of any immediate medical attention and special treatment needed is not available.

---

**Section 5. Fire–fighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Use appropriate extinguishing media suitable for surrounding facilities.

The product is non–flammable.

**Unsuitable extinguishing media**

Unsuitable extinguishing media data is not available.

**5.2 Specific hazards arising from the substance or mixture**

Fire may produce irritating, corrosive and/or toxic gases.

**5.3 Advice for firefighters**

**Specific fire–fighting measures**

Evacuate non–essential personnel to safe area.

Extinguish from the windward to the extent possible.

**Special protective equipment and precautions for fire–fighters**

Wear fire resistant or flame retardant clothing.

Firefighters should wear self–contained breathing apparatus with a full facepiece operated in the positive pressure mode.

---

**Section 6. Accidental release measures**

**6.1 Personnel precautions, protective equipment and emergency procedures**

Keep unauthorized personnel away.

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Stop leak if safe to do so.

**6.2 Environmental precautions**

Prevent spills from entering sewers, watercourses or low areas.

Do not wash away into sewers or waterway.

**6.3 Methods and materials for containment and cleaning up**

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

For large spill, dike for later disposal.

Fill the disposal into labelled, closable containers.

**6.4 Reference to other sections**

Refer to section 8

Refer to section 13

---

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

#### Preventive measures

(Exposure Control for handling personnel)

Avoid breathing mist/vapors/spray.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

#### Safety Measures

Use personal protective equipment as required.

Any incompatibilities data is not available.

Advice on general occupational hygiene

Do not get in eyes, on skin, or on clothing.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

### 7.2 Storage

#### Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

Container and packaging materials for safe handling data is not available.

### 7.3 Specific end use(s)

Research reagent(3D immunostaining kit)

---

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Adopted value

Adopted value in ACGIH is not available.

EU OEL value is not available.

### 8.2 Exposure controls

#### Appropriate engineering controls

Exhaust/ventilator should be available.

Eye wash station should be available.

Washing facilities should be available.

#### Individual protection measures

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

##### Hand protection

Wear protective gloves. Recommended material(s): impermeable or chemical resistant rubber

##### Eye protection

Wear safety glasses with side-shields or chemical safety goggle.

##### Skin and body protection

Wear protective clothing.

---

## Section 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Clear

Odor: None

Odor threshold data is not available.

Melting point/Freezing point data is not available.

---

Boiling point or initial boiling point data is not available.  
Boiling range data is not available.  
Flammability (gases, liquids and solids): Non-flammable  
Lower and upper explosion limit/flammability limit: Not applicable  
Flash point: Non-flammable  
Auto-ignition temperature: Not applicable  
Decomposition temperature data is not available.  
pH data is not available.  
Kinematic viscosity data is not available.  
Solubility:  
    Solubility in water: Soluble  
    Solubility in solvent data is not available.  
n-Octanol/water partition coefficient data is not available.  
Vapor pressure data is not available.  
Density and/or relative density data is not available.  
Relative vapor density (Air=1) data is not available.  
Particle characteristics: Not applicable

9.2 Other information  
    Other information is not available.

---

## Section 10. Stability and Reactivity

- 10.1 Reactivity  
    Reactivity data is not available.
- 10.2 Chemical stability  
    Stable under normal storage/handling conditions.
- 10.3 Possibility of hazardous reactions  
    Possibility of hazardous reactions data is not available.
- 10.4 Conditions to avoid  
    Conditions to avoid data is not available.
- 10.5 Incompatible materials  
    Incompatible materials data is not available.
- 10.6 Hazardous decomposition products  
    Hazardous decomposition products data is not available.

---

## Section 11. Toxicological Information

- 11.1 Information on toxicological effects
- Acute toxicity
- Acute toxicity (Oral)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.
- Acute toxicity (Dermal)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.
- Acute toxicity (Inhalation)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.

Irritant properties

Skin corrosion/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Serious eye damage/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Sensitization

Respiratory sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Skin sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Germ cell mutagenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Carcinogenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Reproductive toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Specific target organ toxicity (STOT)

STOT–single exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

STOT–repeated exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Aspiration hazard

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

---

11.2 Information on other hazards

Endocrine disrupting properties is not available.

---

Section 12. Ecological Information

12.1 Toxicity

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

12.2 Persistence and degradability

Persistence and degradability data is not available.

12.3 Bioaccumulative potential

Bioaccumulative potential data is not available.

12.4 Mobility in soil

Mobility in soil data is not available.

12.5 Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

12.6 Endocrine disrupting properties

Endocrine disrupting properties is not available.

12.7 Other adverse effects

Ozone depleting chemical data is not available.

---

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

Dispose to an authorized waste collection point.

Do not dump into sewers, on the ground or into any body of water.

Contaminated packing

Dispose of container after using the contents completely.

---

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

---

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

IMDG Code (International Maritime Dangerous Goods Regulations)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

IATA (Dangerous Goods Regulations)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

14.5 Environmental hazards

Marine pollutants (yes/no) : no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

This product is not intended to be carried in bulk.

---

Section 15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The product does not contain any ingredients listed in REACH SVHC candidate list.

Other information is not available.

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

15.2 Chemical safety assessment

Advice on safe handling for this product can be found in sections 7 and 8 of this SDS.

---

Section 16. Other information

GHS classification and labelling

Not classified/Classification not possible

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN

IMDG Code, 2020 Edition (Incorporating Amendment 40–20)

IATA Dangerous Goods Regulations (64th Edition) 2023

EU REGULATION (EC) No. 1272/2008 (CLP), amended by COMMISSION REGULATION (EU) 2019/521

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2022 TLVs and BEIs. (ACGIH)

Supplier's data/information

GESTIS–Stoffdatenbank

Pub Chem (OPEN CHEMISTRY DATABASE)

Abbreviations and acronyms

ACGIH – American Conference of Governmental Industrial Hygienists;

ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road;

ATE – Acute Toxicity Estimate; BCF – Bioconcentration Factor; BOD – Biochemical Oxygen Demand;

Cat. – Category; Ceiling–C – Ceiling value;

---

CLP – Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures;  
COD – Chemical Oxygen Demand; DSEN – Dermal Sensitization;  
EC No. – The European Community number; EC50 – Effective Concentration 50; EU – European Union;  
GHS – Globally Harmonized System of Classification and Labelling of Chemicals;  
IARC – International Agency for Research on Cancer; IATA – International Air Transport Association;  
IBC Code – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;  
IMDG Code – International Maritime Dangerous Goods Code; LC50 – Lethal Concentration 50;  
LD50 – Lethal Dose 50; logPow – n-Octanol/water Partition Coefficient;  
LTEL – eight-hour time weighted average;  
MARPOL – International Convention for the Prevention of Pollution from Ships;  
M-factor – Multiplying factors; NOEC – No Observed Effect Concentration;  
NTP – National Toxicology Program; PBT – Persistent, Bioaccumulative and Toxic substances;  
REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No.1907/2006;  
RID – Regulation concerning the International Carriage of Dangerous goods by Rail;  
RSEN – Respiratory Sensitization; SCL – Specific Concentration Limit;  
Skin – Danger of cutaneous absorption; STEL – Short-term Exposure Limit;  
STOT – Specific target organ toxicity; SVHC – Substance of Very High Concern;  
TWA – time-weighted average; UN – United Nations;  
vPvB – Very Persistent and very Bioaccumulative substances

#### General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety. The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 17/12/2022 and Commission delegated regulation (EU) 2022/692 (ATP18)).

## Safety Data Sheet

according to Regulation (EC) No.1907/2006 (REACH), amended by COMMISSION REGULATION (EU) 2020/878

Product name : CUBIC-HV2 Additive B

Date of revision : 08/May/2023

SDS No. : CUBIC\_HV2\_Additive\_B\_EU-1

Revision No. : 1

---

### Section 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier:

Product name: CUBIC-HV2 Additive B

Product code (SDS NO): CUBIC\_HV2\_Additive\_B\_EU-1

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research reagent(3D immunostaining kit)

Uses advised against: Research purpose only

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: CUBICStars, Inc.

Address: 1-1, Hyakunen Koen, Kurume City, Fukuoka, 839-0864 Japan

Telephone number: \*\*\*\*\*

FAX: \*\*\*\*\*

#### 1.4 Emergency telephone number: \*\*\*\*\*

---

### Section 2. Hazards identification

GHS classification and label elements of the product

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No.1272/2008 [CLP]

Not classified/Classification not possible

#### 2.2 Label elements

Labelling according to Regulation (EC) No.1272/2008 [CLP]

No GHS label element

No Signal word

#### 2.3 Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

The product does not contain any ingredients designated as Endocrine disrupting properties.

---

### Section 3. Composition/information on ingredients

Mixture/Substance selection:

#### 3.2 Mixture

This product doesn't contain any substances listed in Table 3 of Annex VI in EU CLP.

Components contributing to the hazard

The product does not contain any ingredients listed in REACH SVHC candidate list.

Full text of classifications and hazard statements: see section 16

---

### Section 4. First-aid measures

#### 4.1 Descriptions of first-aid measures

General measures

Show this SDS, the product container or label when getting medical attention/advice.

**IF INHALED**

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

**IF ON SKIN (or hair)**

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

---

**IF IN EYES**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.

If eye irritation persists: Get medical advice/attention.

**IF SWALLOWED**

Rinse mouth.

Call a POISON CENTER/doctor/physician if you feel unwell.

**4.2 Most important symptoms and effects, both acute and delayed**

Specific information on symptom and effect are unknown.

**4.3 Indication of any immediate medical attention and special treatment needed**

Information on indication of any immediate medical attention and special treatment needed is not available.

---

**Section 5. Fire–fighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Use appropriate extinguishing media suitable for surrounding facilities.

The product is non–flammable.

**Unsuitable extinguishing media**

Unsuitable extinguishing media data is not available.

**5.2 Specific hazards arising from the substance or mixture**

Fire may produce irritating, corrosive and/or toxic gases.

**5.3 Advice for firefighters**

**Specific fire–fighting measures**

Evacuate non–essential personnel to safe area.

Extinguish from the windward to the extent possible.

**Special protective equipment and precautions for fire–fighters**

Wear fire resistant or flame retardant clothing.

Firefighters should wear self–contained breathing apparatus with a full facepiece operated in the positive pressure mode.

---

**Section 6. Accidental release measures**

**6.1 Personnel precautions, protective equipment and emergency procedures**

Keep unauthorized personnel away.

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Stop leak if safe to do so.

**6.2 Environmental precautions**

Prevent spills from entering sewers, watercourses or low areas.

Do not wash away into sewers or waterway.

**6.3 Methods and materials for containment and cleaning up**

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

For large spill, dike for later disposal.

Fill the disposal into labelled, closable containers.

**6.4 Reference to other sections**

Refer to section 8

Refer to section 13

---

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

#### Preventive measures

(Exposure Control for handling personnel)

Avoid breathing mist/vapors/spray.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

#### Safety Measures

Use personal protective equipment as required.

Any incompatibilities data is not available.

Advice on general occupational hygiene

Do not get in eyes, on skin, or on clothing.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

### 7.2 Storage

Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

Container and packaging materials for safe handling data is not available.

### 7.3 Specific end use(s)

Research reagent(3D immunostaining kit)

---

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

Adopted value

Adopted value in ACGIH is not available.

EU OEL value is not available.

### 8.2 Exposure controls

Appropriate engineering controls

Exhaust/ventilator should be available.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

Wear protective gloves. Recommended material(s): impermeable or chemical resistant rubber

Eye protection

Wear safety glasses with side-shields or chemical safety goggle.

Skin and body protection

Wear protective clothing.

---

## Section 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Clear

Odor: None

Odor threshold data is not available.

Melting point/Freezing point data is not available.

---

Boiling point or initial boiling point data is not available.  
Boiling range data is not available.  
Flammability (gases, liquids and solids): Non–flammable  
Lower and upper explosion limit/flammability limit: Not applicable  
Flash point: Non–flammable  
Auto–ignition temperature: Not applicable  
Decomposition temperature data is not available.  
pH data is not available.  
Kinematic viscosity data is not available.  
Solubility:  
    Solubility in water: Soluble  
    Solubility in solvent data is not available.  
n–Octanol/water partition coefficient data is not available.  
Vapor pressure data is not available.  
Density and/or relative density data is not available.  
Relative vapor density (Air=1) data is not available.  
Particle characteristics: Not applicable

9.2 Other information  
    Other information is not available.

---

## Section 10. Stability and Reactivity

- 10.1 Reactivity  
    Reactivity data is not available.
- 10.2 Chemical stability  
    Stable under normal storage/handling conditions.
- 10.3 Possibility of hazardous reactions  
    Possibility of hazardous reactions data is not available.
- 10.4 Conditions to avoid  
    Conditions to avoid data is not available.
- 10.5 Incompatible materials  
    Incompatible materials data is not available.
- 10.6 Hazardous decomposition products  
    Hazardous decomposition products data is not available.

---

## Section 11. Toxicological Information

- 11.1 Information on toxicological effects
- Acute toxicity
- Acute toxicity (Oral)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.
- Acute toxicity (Dermal)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.
- Acute toxicity (Inhalation)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.

Irritant properties

Skin corrosion/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Serious eye damage/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Sensitization

Respiratory sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Skin sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Germ cell mutagenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Carcinogenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Reproductive toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Specific target organ toxicity (STOT)

STOT–single exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

STOT–repeated exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Aspiration hazard

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

---

11.2 Information on other hazards

Endocrine disrupting properties is not available.

---

Section 12. Ecological Information

12.1 Toxicity

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

12.2 Persistence and degradability

Persistence and degradability data is not available.

12.3 Bioaccumulative potential

Bioaccumulative potential data is not available.

12.4 Mobility in soil

Mobility in soil data is not available.

12.5 Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

12.6 Endocrine disrupting properties

Endocrine disrupting properties is not available.

12.7 Other adverse effects

Ozone depleting chemical data is not available.

---

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

Dispose to an authorized waste collection point.

Do not dump into sewers, on the ground or into any body of water.

Contaminated packing

Dispose of container after using the contents completely.

---

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

---

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

IMDG Code (International Maritime Dangerous Goods Regulations)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

IATA (Dangerous Goods Regulations)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

14.5 Environmental hazards

Marine pollutants (yes/no) : no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

This product is not intended to be carried in bulk.

---

Section 15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The product does not contain any ingredients listed in REACH SVHC candidate list.

Other information is not available.

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

15.2 Chemical safety assessment

Advice on safe handling for this product can be found in sections 7 and 8 of this SDS.

---

Section 16. Other information

GHS classification and labelling

Not classified/Classification not possible

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN  
Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN  
IMDG Code, 2020 Edition (Incorporating Amendment 40-20)  
IATA Dangerous Goods Regulations (64th Edition) 2023  
EU REGULATION (EC) No. 1272/2008 (CLP), amended by COMMISSION REGULATION (EU) 2019/521  
2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)  
2022 TLVs and BEIs. (ACGIH)  
Supplier's data/information  
GESTIS–Stoffdatenbank  
Pub Chem (OPEN CHEMISTRY DATABASE)

Abbreviations and acronyms

ACGIH – American Conference of Governmental Industrial Hygienists;  
ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;  
ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road;  
ATE – Acute Toxicity Estimate; BCF – Bioconcentration Factor; BOD – Biochemical Oxygen Demand;  
Cat. – Category; Ceiling–C – Ceiling value;

---

CLP – Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures;  
COD – Chemical Oxygen Demand; DSEN – Dermal Sensitization;  
EC No. – The European Community number; EC50 – Effective Concentration 50; EU – European Union;  
GHS – Globally Harmonized System of Classification and Labelling of Chemicals;  
IARC – International Agency for Research on Cancer; IATA – International Air Transport Association;  
IBC Code – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;  
IMDG Code – International Maritime Dangerous Goods Code; LC50 – Lethal Concentration 50;  
LD50 – Lethal Dose 50; logPow – n-Octanol/water Partition Coefficient;  
LTEL – eight-hour time weighted average;  
MARPOL – International Convention for the Prevention of Pollution from Ships;  
M-factor – Multiplying factors; NOEC – No Observed Effect Concentration;  
NTP – National Toxicology Program; PBT – Persistent, Bioaccumulative and Toxic substances;  
REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No.1907/2006;  
RID – Regulation concerning the International Carriage of Dangerous goods by Rail;  
RSEN – Respiratory Sensitization; SCL – Specific Concentration Limit;  
Skin – Danger of cutaneous absorption; STEL – Short-term Exposure Limit;  
STOT – Specific target organ toxicity; SVHC – Substance of Very High Concern;  
TWA – time-weighted average; UN – United Nations;  
vPvB – Very Persistent and very Bioaccumulative substances

**General Disclaimer**

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety. The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 17/12/2022 and Commission delegated regulation (EU) 2022/692 (ATP18)).

## Safety Data Sheet

according to Regulation (EC) No.1907/2006 (REACH), amended by COMMISSION REGULATION (EU) 2020/878

Product name : CUBIC-HV2 Additive C

Date of revision : 08/May/2023

SDS No. : CUBIC\_HV2\_Additive\_C\_EU-1

Revision No. : 1

---

### Section 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier:

Product name: CUBIC-HV2 Additive C

Product code (SDS NO): CUBIC\_HV2\_Additive\_C\_EU-1

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research reagent(3D immunostaining kit)

Uses advised against: Research purpose only

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: CUBICStars, Inc.

Address: 1-1, Hyakunen Koen, Kurume City, Fukuoka, 839-0864 Japan

Telephone number: \*\*\*\*\*

FAX: \*\*\*\*\*

#### 1.4 Emergency telephone number: \*\*\*\*\*

---

### Section 2. Hazards identification

GHS classification and label elements of the product

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No.1272/2008 [CLP]

Not classified/Classification not possible

#### 2.2 Label elements

Labelling according to Regulation (EC) No.1272/2008 [CLP]

No GHS label element

No Signal word

#### 2.3 Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

The product does not contain any ingredients designated as Endocrine disrupting properties.

---

### Section 3. Composition/information on ingredients

Mixture/Substance selection:

#### 3.2 Mixture

This product doesn't contain any substances listed in Table 3 of Annex VI in EU CLP.

Components contributing to the hazard

The product does not contain any ingredients listed in REACH SVHC candidate list.

Full text of classifications and hazard statements: see section 16

---

### Section 4. First-aid measures

#### 4.1 Descriptions of first-aid measures

General measures

Show this SDS, the product container or label when getting medical attention/advice.

**IF INHALED**

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

**IF ON SKIN (or hair)**

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

---

**IF IN EYES**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.

If eye irritation persists: Get medical advice/attention.

**IF SWALLOWED**

Rinse mouth.

Call a POISON CENTER/doctor/physician if you feel unwell.

**4.2 Most important symptoms and effects, both acute and delayed**

Specific information on symptom and effect are unknown.

**4.3 Indication of any immediate medical attention and special treatment needed**

Information on indication of any immediate medical attention and special treatment needed is not available.

---

**Section 5. Fire–fighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Use appropriate extinguishing media suitable for surrounding facilities.

The product is non–flammable.

**Unsuitable extinguishing media**

Unsuitable extinguishing media data is not available.

**5.2 Specific hazards arising from the substance or mixture**

Fire may produce irritating, corrosive and/or toxic gases.

**5.3 Advice for firefighters**

**Specific fire–fighting measures**

Evacuate non–essential personnel to safe area.

Extinguish from the windward to the extent possible.

**Special protective equipment and precautions for fire–fighters**

Wear fire resistant or flame retardant clothing.

Firefighters should wear self–contained breathing apparatus with a full facepiece operated in the positive pressure mode.

---

**Section 6. Accidental release measures**

**6.1 Personnel precautions, protective equipment and emergency procedures**

Keep unauthorized personnel away.

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Stop leak if safe to do so.

**6.2 Environmental precautions**

Prevent spills from entering sewers, watercourses or low areas.

Do not wash away into sewers or waterway.

**6.3 Methods and materials for containment and cleaning up**

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

For large spill, dike for later disposal.

Fill the disposal into labelled, closable containers.

**6.4 Reference to other sections**

Refer to section 8

Refer to section 13

---

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

#### Preventive measures

(Exposure Control for handling personnel)

Avoid breathing mist/vapors/spray.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

#### Safety Measures

Use personal protective equipment as required.

Any incompatibilities data is not available.

Advice on general occupational hygiene

Do not get in eyes, on skin, or on clothing.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

### 7.2 Storage

Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

Container and packaging materials for safe handling data is not available.

### 7.3 Specific end use(s)

Research reagent(3D immunostaining kit)

---

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

Adopted value

Adopted value in ACGIH is not available.

EU OEL value is not available.

### 8.2 Exposure controls

Appropriate engineering controls

Exhaust/ventilator should be available.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

Wear protective gloves. Recommended material(s): impermeable or chemical resistant rubber

Eye protection

Wear safety glasses with side-shields or chemical safety goggle.

Skin and body protection

Wear protective clothing.

---

## Section 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Clear

Odor: None

Odor threshold data is not available.

Melting point/Freezing point data is not available.

---

Boiling point or initial boiling point data is not available.  
Boiling range data is not available.  
Flammability (gases, liquids and solids): Non-flammable  
Lower and upper explosion limit/flammability limit: Not applicable  
Flash point: Non-flammable  
Auto-ignition temperature: Not applicable  
Decomposition temperature data is not available.  
pH data is not available.  
Kinematic viscosity data is not available.  
Solubility:  
    Solubility in water: Soluble  
    Solubility in solvent data is not available.  
n-Octanol/water partition coefficient data is not available.  
Vapor pressure data is not available.  
Density and/or relative density data is not available.  
Relative vapor density (Air=1) data is not available.  
Particle characteristics: Not applicable

9.2 Other information  
    Other information is not available.

---

## Section 10. Stability and Reactivity

- 10.1 Reactivity  
    Reactivity data is not available.
- 10.2 Chemical stability  
    Stable under normal storage/handling conditions.
- 10.3 Possibility of hazardous reactions  
    Possibility of hazardous reactions data is not available.
- 10.4 Conditions to avoid  
    Conditions to avoid data is not available.
- 10.5 Incompatible materials  
    Incompatible materials data is not available.
- 10.6 Hazardous decomposition products  
    Hazardous decomposition products data is not available.

---

## Section 11. Toxicological Information

- 11.1 Information on toxicological effects
- Acute toxicity
- Acute toxicity (Oral)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.
- Acute toxicity (Dermal)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.
- Acute toxicity (Inhalation)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.

Irritant properties

Skin corrosion/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Serious eye damage/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Sensitization

Respiratory sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Skin sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Germ cell mutagenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Carcinogenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Reproductive toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Specific target organ toxicity (STOT)

STOT–single exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

STOT–repeated exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Aspiration hazard

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

---

11.2 Information on other hazards

Endocrine disrupting properties is not available.

---

Section 12. Ecological Information

12.1 Toxicity

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

12.2 Persistence and degradability

Persistence and degradability data is not available.

12.3 Bioaccumulative potential

Bioaccumulative potential data is not available.

12.4 Mobility in soil

Mobility in soil data is not available.

12.5 Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

12.6 Endocrine disrupting properties

Endocrine disrupting properties is not available.

12.7 Other adverse effects

Ozone depleting chemical data is not available.

---

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

Dispose to an authorized waste collection point.

Do not dump into sewers, on the ground or into any body of water.

Contaminated packing

Dispose of container after using the contents completely.

---

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

---

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

IMDG Code (International Maritime Dangerous Goods Regulations)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

IATA (Dangerous Goods Regulations)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

14.5 Environmental hazards

Marine pollutants (yes/no) : no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

This product is not intended to be carried in bulk.

---

Section 15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The product does not contain any ingredients listed in REACH SVHC candidate list.

Other information is not available.

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

15.2 Chemical safety assessment

Advice on safe handling for this product can be found in sections 7 and 8 of this SDS.

---

Section 16. Other information

GHS classification and labelling

Not classified/Classification not possible

References and sources for data

- Globally Harmonized System of classification and labelling of chemicals, UN
- Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN
- IMDG Code, 2020 Edition (Incorporating Amendment 40–20)
- IATA Dangerous Goods Regulations (64th Edition) 2023
- EU REGULATION (EC) No. 1272/2008 (CLP), amended by COMMISSION REGULATION (EU) 2019/521
- 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
- 2022 TLVs and BEIs. (ACGIH)
- Supplier's data/information
- GESTIS–Stoffdatenbank
- Pub Chem (OPEN CHEMISTRY DATABASE)

Abbreviations and acronyms

- ACGIH – American Conference of Governmental Industrial Hygienists;
- ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;
- ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road;
- ATE – Acute Toxicity Estimate; BCF – Bioconcentration Factor; BOD – Biochemical Oxygen Demand;
- Cat. – Category; Ceiling–C – Ceiling value;

---

CLP – Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures;  
COD – Chemical Oxygen Demand; DSEN – Dermal Sensitization;  
EC No. – The European Community number; EC50 – Effective Concentration 50; EU – European Union;  
GHS – Globally Harmonized System of Classification and Labelling of Chemicals;  
IARC – International Agency for Research on Cancer; IATA – International Air Transport Association;  
IBC Code – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;  
IMDG Code – International Maritime Dangerous Goods Code; LC50 – Lethal Concentration 50;  
LD50 – Lethal Dose 50; logPow – n-Octanol/water Partition Coefficient;  
LTEL – eight-hour time weighted average;  
MARPOL – International Convention for the Prevention of Pollution from Ships;  
M-factor – Multiplying factors; NOEC – No Observed Effect Concentration;  
NTP – National Toxicology Program; PBT – Persistent, Bioaccumulative and Toxic substances;  
REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No.1907/2006;  
RID – Regulation concerning the International Carriage of Dangerous goods by Rail;  
RSEN – Respiratory Sensitization; SCL – Specific Concentration Limit;  
Skin – Danger of cutaneous absorption; STEL – Short-term Exposure Limit;  
STOT – Specific target organ toxicity; SVHC – Substance of Very High Concern;  
TWA – time-weighted average; UN – United Nations;  
vPvB – Very Persistent and very Bioaccumulative substances

#### General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety. The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 17/12/2022 and Commission delegated regulation (EU) 2022/692 (ATP18)).

## Safety Data Sheet

according to Regulation (EC) No.1907/2006 (REACH), amended by COMMISSION REGULATION (EU) 2020/878

Product name : CUBIC-HV2 Additive D

Date of revision : 08/May/2023

SDS No. : CUBIC\_HV2\_Additive\_D\_EU-1

Revision No. : 1

---

### Section 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier:

Product name: CUBIC-HV2 Additive D

Product code (SDS NO): CUBIC\_HV2\_Additive\_D\_EU-1

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research reagent(3D immunostaining kit)

Uses advised against: Research purpose only

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: CUBICStars, Inc.

Address: 1-1, Hyakunen Koen, Kurume City, Fukuoka, 839-0864 Japan

Telephone number: \*\*\*\*\*

FAX: \*\*\*\*\*

#### 1.4 Emergency telephone number: \*\*\*\*\*

---

### Section 2. Hazards identification

GHS classification and label elements of the product

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No.1272/2008 [CLP]

Not classified/Classification not possible

#### 2.2 Label elements

Labelling according to Regulation (EC) No.1272/2008 [CLP]

No GHS label element

No Signal word

#### 2.3 Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

The product does not contain any ingredients designated as Endocrine disrupting properties.

---

### Section 3. Composition/information on ingredients

Mixture/Substance selection:

#### 3.2 Mixture

This product doesn't contain any substances listed in Table 3 of Annex VI in EU CLP.

Components contributing to the hazard

The product does not contain any ingredients listed in REACH SVHC candidate list.

Full text of classifications and hazard statements: see section 16

---

### Section 4. First-aid measures

#### 4.1 Descriptions of first-aid measures

General measures

Show this SDS, the product container or label when getting medical attention/advice.

**IF INHALED**

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

**IF ON SKIN (or hair)**

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

---

**IF IN EYES**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

**IF SWALLOWED**

Rinse mouth.  
Call a POISON CENTER/doctor/physician if you feel unwell.

**4.2 Most important symptoms and effects, both acute and delayed**

Specific information on symptom and effect are unknown.

**4.3 Indication of any immediate medical attention and special treatment needed**

Information on indication of any immediate medical attention and special treatment needed is not available.

---

**Section 5. Fire–fighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Use appropriate extinguishing media suitable for surrounding facilities.

The product is non–flammable.

**Unsuitable extinguishing media**

Unsuitable extinguishing media data is not available.

**5.2 Specific hazards arising from the substance or mixture**

Fire may produce irritating, corrosive and/or toxic gases.

**5.3 Advice for firefighters**

**Specific fire–fighting measures**

Evacuate non–essential personnel to safe area.

Extinguish from the windward to the extent possible.

**Special protective equipment and precautions for fire–fighters**

Wear fire resistant or flame retardant clothing.

Firefighters should wear self–contained breathing apparatus with a full facepiece operated in the positive pressure mode.

---

**Section 6. Accidental release measures**

**6.1 Personnel precautions, protective equipment and emergency procedures**

Keep unauthorized personnel away.

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Stop leak if safe to do so.

**6.2 Environmental precautions**

Prevent spills from entering sewers, watercourses or low areas.

Do not wash away into sewers or waterway.

**6.3 Methods and materials for containment and cleaning up**

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

For large spill, dike for later disposal.

Fill the disposal into labelled, closable containers.

**6.4 Reference to other sections**

Refer to section 8

Refer to section 13

---

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

#### Preventive measures

(Exposure Control for handling personnel)

Avoid breathing mist/vapors/spray.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

#### Safety Measures

Use personal protective equipment as required.

Any incompatibilities data is not available.

Advice on general occupational hygiene

Do not get in eyes, on skin, or on clothing.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

### 7.2 Storage

#### Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

Container and packaging materials for safe handling data is not available.

### 7.3 Specific end use(s)

Research reagent(3D immunostaining kit)

---

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Adopted value

Adopted value in ACGIH is not available.

EU OEL value is not available.

### 8.2 Exposure controls

#### Appropriate engineering controls

Exhaust/ventilator should be available.

Eye wash station should be available.

Washing facilities should be available.

#### Individual protection measures

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

##### Hand protection

Wear protective gloves. Recommended material(s): impermeable or chemical resistant rubber

##### Eye protection

Wear safety glasses with side-shields or chemical safety goggle.

##### Skin and body protection

Wear protective clothing.

---

## Section 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Clear

Odor: Slight odor

Odor threshold data is not available.

Melting point/Freezing point data is not available.

---

Boiling point or initial boiling point data is not available.  
Boiling range data is not available.  
Flammability (gases, liquids and solids): Non-flammable  
Lower and upper explosion limit/flammability limit: Not applicable  
Flash point: Non-flammable  
Auto-ignition temperature: Not applicable  
Decomposition temperature data is not available.  
pH data is not available.  
Kinematic viscosity data is not available.  
Solubility:  
    Solubility in water: Soluble  
    Solubility in solvent data is not available.  
n-Octanol/water partition coefficient data is not available.  
Vapor pressure data is not available.  
Density and/or relative density data is not available.  
Relative vapor density (Air=1) data is not available.  
Particle characteristics: Not applicable

9.2 Other information  
    Other information is not available.

---

## Section 10. Stability and Reactivity

- 10.1 Reactivity  
    Reactivity data is not available.
- 10.2 Chemical stability  
    Stable under normal storage/handling conditions.
- 10.3 Possibility of hazardous reactions  
    Possibility of hazardous reactions data is not available.
- 10.4 Conditions to avoid  
    Conditions to avoid data is not available.
- 10.5 Incompatible materials  
    Incompatible materials data is not available.
- 10.6 Hazardous decomposition products  
    Hazardous decomposition products data is not available.

---

## Section 11. Toxicological Information

- 11.1 Information on toxicological effects
- Acute toxicity
- Acute toxicity (Oral)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.
- Acute toxicity (Dermal)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.
- Acute toxicity (Inhalation)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.

Irritant properties

Skin corrosion/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Serious eye damage/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Sensitization

Respiratory sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Skin sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Germ cell mutagenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Carcinogenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Reproductive toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Specific target organ toxicity (STOT)

STOT–single exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

STOT–repeated exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Aspiration hazard

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

---

11.2 Information on other hazards

Endocrine disrupting properties is not available.

---

Section 12. Ecological Information

12.1 Toxicity

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

12.2 Persistence and degradability

Persistence and degradability data is not available.

12.3 Bioaccumulative potential

Bioaccumulative potential data is not available.

12.4 Mobility in soil

Mobility in soil data is not available.

12.5 Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

12.6 Endocrine disrupting properties

Endocrine disrupting properties is not available.

12.7 Other adverse effects

Ozone depleting chemical data is not available.

---

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

Dispose to an authorized waste collection point.

Do not dump into sewers, on the ground or into any body of water.

Contaminated packing

Dispose of container after using the contents completely.

---

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

---

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

IMDG Code (International Maritime Dangerous Goods Regulations)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

IATA (Dangerous Goods Regulations)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

14.5 Environmental hazards

Marine pollutants (yes/no) : no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

This product is not intended to be carried in bulk.

---

Section 15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The product does not contain any ingredients listed in REACH SVHC candidate list.

Other information is not available.

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

15.2 Chemical safety assessment

Advice on safe handling for this product can be found in sections 7 and 8 of this SDS.

---

Section 16. Other information

GHS classification and labelling

Not classified/Classification not possible

References and sources for data

- Globally Harmonized System of classification and labelling of chemicals, UN
- Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN
- IMDG Code, 2020 Edition (Incorporating Amendment 40–20)
- IATA Dangerous Goods Regulations (64th Edition) 2023
- EU REGULATION (EC) No. 1272/2008 (CLP), amended by COMMISSION REGULATION (EU) 2019/521
- 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
- 2022 TLVs and BEIs. (ACGIH)
- Supplier's data/information
- GESTIS–Stoffdatenbank
- Pub Chem (OPEN CHEMISTRY DATABASE)

Abbreviations and acronyms

- ACGIH – American Conference of Governmental Industrial Hygienists;
- ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;
- ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road;
- ATE – Acute Toxicity Estimate; BCF – Bioconcentration Factor; BOD – Biochemical Oxygen Demand;
- Cat. – Category; Ceiling–C – Ceiling value;

---

CLP – Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures;  
COD – Chemical Oxygen Demand; DSEN – Dermal Sensitization;  
EC No. – The European Community number; EC50 – Effective Concentration 50; EU – European Union;  
GHS – Globally Harmonized System of Classification and Labelling of Chemicals;  
IARC – International Agency for Research on Cancer; IATA – International Air Transport Association;  
IBC Code – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;  
IMDG Code – International Maritime Dangerous Goods Code; LC50 – Lethal Concentration 50;  
LD50 – Lethal Dose 50; logPow – n-Octanol/water Partition Coefficient;  
LTEL – eight-hour time weighted average;  
MARPOL – International Convention for the Prevention of Pollution from Ships;  
M-factor – Multiplying factors; NOEC – No Observed Effect Concentration;  
NTP – National Toxicology Program; PBT – Persistent, Bioaccumulative and Toxic substances;  
REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No.1907/2006;  
RID – Regulation concerning the International Carriage of Dangerous goods by Rail;  
RSEN – Respiratory Sensitization; SCL – Specific Concentration Limit;  
Skin – Danger of cutaneous absorption; STEL – Short-term Exposure Limit;  
STOT – Specific target organ toxicity; SVHC – Substance of Very High Concern;  
TWA – time-weighted average; UN – United Nations;  
vPvB – Very Persistent and very Bioaccumulative substances

**General Disclaimer**

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety. The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 17/12/2022 and Commission delegated regulation (EU) 2022/692 (ATP18)).

## Safety Data Sheet

according to Regulation (EC) No.1907/2006 (REACH), amended by COMMISSION REGULATION (EU) 2020/878

Product name : CUBIC-HV2 Additive E

Date of revision : 08/May/2023

SDS No. : CUBIC\_HV2\_Additive\_E\_EU-1

Revision No. : 1

---

### Section 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier:

Product name: CUBIC-HV2 Additive E

Product code (SDS NO): CUBIC\_HV2\_Additive\_E\_EU-1

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research reagent(3D immunostaining kit)

Uses advised against: Research purpose only

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: CUBICStars, Inc.

Address: 1-1, Hyakunen Koen, Kurume City, Fukuoka, 839-0864 Japan

Telephone number: \*\*\*\*\*

FAX: \*\*\*\*\*

#### 1.4 Emergency telephone number: \*\*\*\*\*

---

### Section 2. Hazards identification

GHS classification and label elements of the product

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No.1272/2008 [CLP]

Not classified/Classification not possible

#### 2.2 Label elements

Labelling according to Regulation (EC) No.1272/2008 [CLP]

No GHS label element

No Signal word

#### 2.3 Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

The product does not contain any ingredients designated as Endocrine disrupting properties.

---

### Section 3. Composition/information on ingredients

Mixture/Substance selection:

#### 3.2 Mixture

This product doesn't contain any substances listed in Table 3 of Annex VI in EU CLP.

Components contributing to the hazard

The product does not contain any ingredients listed in REACH SVHC candidate list.

Full text of classifications and hazard statements: see section 16

---

### Section 4. First-aid measures

#### 4.1 Descriptions of first-aid measures

General measures

Show this SDS, the product container or label when getting medical attention/advice.

**IF INHALED**

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

**IF ON SKIN (or hair)**

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

---

**IF IN EYES**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

**IF SWALLOWED**

Rinse mouth.  
Call a POISON CENTER/doctor/physician if you feel unwell.

**4.2 Most important symptoms and effects, both acute and delayed**

Specific information on symptom and effect are unknown.

**4.3 Indication of any immediate medical attention and special treatment needed**

Information on indication of any immediate medical attention and special treatment needed is not available.

---

**Section 5. Fire–fighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Use appropriate extinguishing media suitable for surrounding facilities.

The product is non–flammable.

**Unsuitable extinguishing media**

Unsuitable extinguishing media data is not available.

**5.2 Specific hazards arising from the substance or mixture**

Fire may produce irritating, corrosive and/or toxic gases.

**5.3 Advice for firefighters**

**Specific fire–fighting measures**

Evacuate non–essential personnel to safe area.

Extinguish from the windward to the extent possible.

**Special protective equipment and precautions for fire–fighters**

Wear fire resistant or flame retardant clothing.

Firefighters should wear self–contained breathing apparatus with a full facepiece operated in the positive pressure mode.

---

**Section 6. Accidental release measures**

**6.1 Personnel precautions, protective equipment and emergency procedures**

Keep unauthorized personnel away.

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Stop leak if safe to do so.

**6.2 Environmental precautions**

Prevent spills from entering sewers, watercourses or low areas.

Do not wash away into sewers or waterway.

**6.3 Methods and materials for containment and cleaning up**

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

For large spill, dike for later disposal.

Fill the disposal into labelled, closable containers.

**6.4 Reference to other sections**

Refer to section 8

Refer to section 13

---

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

#### Preventive measures

(Exposure Control for handling personnel)

Avoid breathing mist/vapors/spray.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

#### Safety Measures

Use personal protective equipment as required.

Any incompatibilities data is not available.

Advice on general occupational hygiene

Do not get in eyes, on skin, or on clothing.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

### 7.2 Storage

Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

Container and packaging materials for safe handling data is not available.

### 7.3 Specific end use(s)

Research reagent(3D immunostaining kit)

---

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

Adopted value

Adopted value in ACGIH is not available.

EU OEL value is not available.

### 8.2 Exposure controls

Appropriate engineering controls

Exhaust/ventilator should be available.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

Wear protective gloves. Recommended material(s): impermeable or chemical resistant rubber

Eye protection

Wear safety glasses with side-shields or chemical safety goggle.

Skin and body protection

Wear protective clothing.

---

## Section 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Clear

Odor: None

Odor threshold data is not available.

Melting point/Freezing point data is not available.

---

Boiling point or initial boiling point data is not available.  
Boiling range data is not available.  
Flammability (gases, liquids and solids): Non-flammable  
Lower and upper explosion limit/flammability limit: Not applicable  
Flash point: Non-flammable  
Auto-ignition temperature: Not applicable  
Decomposition temperature data is not available.  
pH data is not available.  
Kinematic viscosity data is not available.  
Solubility:  
    Solubility in water: Soluble  
    Solubility in solvent data is not available.  
n-Octanol/water partition coefficient data is not available.  
Vapor pressure data is not available.  
Density and/or relative density data is not available.  
Relative vapor density (Air=1) data is not available.  
Particle characteristics: Not applicable

9.2 Other information  
    Other information is not available.

---

## Section 10. Stability and Reactivity

- 10.1 Reactivity  
    Reactivity data is not available.
- 10.2 Chemical stability  
    Stable under normal storage/handling conditions.
- 10.3 Possibility of hazardous reactions  
    Possibility of hazardous reactions data is not available.
- 10.4 Conditions to avoid  
    Conditions to avoid data is not available.
- 10.5 Incompatible materials  
    Incompatible materials data is not available.
- 10.6 Hazardous decomposition products  
    Hazardous decomposition products data is not available.

---

## Section 11. Toxicological Information

- 11.1 Information on toxicological effects
- Acute toxicity
- Acute toxicity (Oral)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.
- Acute toxicity (Dermal)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.
- Acute toxicity (Inhalation)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.

Irritant properties

Skin corrosion/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Serious eye damage/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Sensitization

Respiratory sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Skin sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Germ cell mutagenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Carcinogenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Reproductive toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Specific target organ toxicity (STOT)

STOT–single exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

STOT–repeated exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Aspiration hazard

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

---

11.2 Information on other hazards

Endocrine disrupting properties is not available.

---

Section 12. Ecological Information

12.1 Toxicity

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

12.2 Persistence and degradability

Persistence and degradability data is not available.

12.3 Bioaccumulative potential

Bioaccumulative potential data is not available.

12.4 Mobility in soil

Mobility in soil data is not available.

12.5 Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

12.6 Endocrine disrupting properties

Endocrine disrupting properties is not available.

12.7 Other adverse effects

Ozone depleting chemical data is not available.

---

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

Dispose to an authorized waste collection point.

Do not dump into sewers, on the ground or into any body of water.

Contaminated packing

Dispose of container after using the contents completely.

---

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

---

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

IMDG Code (International Maritime Dangerous Goods Regulations)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

IATA (Dangerous Goods Regulations)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

14.5 Environmental hazards

Marine pollutants (yes/no) : no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

This product is not intended to be carried in bulk.

---

Section 15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The product does not contain any ingredients listed in REACH SVHC candidate list.

Other information is not available.

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

15.2 Chemical safety assessment

Advice on safe handling for this product can be found in sections 7 and 8 of this SDS.

---

Section 16. Other information

GHS classification and labelling

Not classified/Classification not possible

References and sources for data

- Globally Harmonized System of classification and labelling of chemicals, UN
- Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN
- IMDG Code, 2020 Edition (Incorporating Amendment 40–20)
- IATA Dangerous Goods Regulations (64th Edition) 2023
- EU REGULATION (EC) No. 1272/2008 (CLP), amended by COMMISSION REGULATION (EU) 2019/521
- 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
- 2022 TLVs and BEIs. (ACGIH)
- Supplier's data/information
- GESTIS–Stoffdatenbank
- Pub Chem (OPEN CHEMISTRY DATABASE)

Abbreviations and acronyms

- ACGIH – American Conference of Governmental Industrial Hygienists;
- ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;
- ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road;
- ATE – Acute Toxicity Estimate; BCF – Bioconcentration Factor; BOD – Biochemical Oxygen Demand;
- Cat. – Category; Ceiling–C – Ceiling value;

---

CLP – Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures;  
COD – Chemical Oxygen Demand; DSEN – Dermal Sensitization;  
EC No. – The European Community number; EC50 – Effective Concentration 50; EU – European Union;  
GHS – Globally Harmonized System of Classification and Labelling of Chemicals;  
IARC – International Agency for Research on Cancer; IATA – International Air Transport Association;  
IBC Code – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;  
IMDG Code – International Maritime Dangerous Goods Code; LC50 – Lethal Concentration 50;  
LD50 – Lethal Dose 50; logPow – n-Octanol/water Partition Coefficient;  
LTEL – eight-hour time weighted average;  
MARPOL – International Convention for the Prevention of Pollution from Ships;  
M-factor – Multiplying factors; NOEC – No Observed Effect Concentration;  
NTP – National Toxicology Program; PBT – Persistent, Bioaccumulative and Toxic substances;  
REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No.1907/2006;  
RID – Regulation concerning the International Carriage of Dangerous goods by Rail;  
RSEN – Respiratory Sensitization; SCL – Specific Concentration Limit;  
Skin – Danger of cutaneous absorption; STEL – Short-term Exposure Limit;  
STOT – Specific target organ toxicity; SVHC – Substance of Very High Concern;  
TWA – time-weighted average; UN – United Nations;  
vPvB – Very Persistent and very Bioaccumulative substances

#### General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety. The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 17/12/2022 and Commission delegated regulation (EU) 2022/692 (ATP18)).

## Safety Data Sheet

according to Regulation (EC) No.1907/2006 (REACH), amended by COMMISSION REGULATION (EU) 2020/878

Product name : CUBIC-HV2 Additive F

Date of revision : 08/May/2023

SDS No. : CUBIC\_HV2\_Additive\_F\_EU-1

Revision No. : 1

---

### Section 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier:

Product name: CUBIC-HV2 Additive F

Product code (SDS NO): CUBIC\_HV2\_Additive\_F\_EU-1

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses of the product: Research reagent(3D immunostaining kit)

Uses advised against: Research purpose only

#### 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: CUBICStars, Inc.

Address: 1-1, Hyakunen Koen, Kurume City, Fukuoka, 839-0864 Japan

Telephone number: \*\*\*\*\*

FAX: \*\*\*\*\*

#### 1.4 Emergency telephone number: \*\*\*\*\*

---

### Section 2. Hazards identification

GHS classification and label elements of the product

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No.1272/2008 [CLP]

Not classified/Classification not possible

#### 2.2 Label elements

Labelling according to Regulation (EC) No.1272/2008 [CLP]

No GHS label element

No Signal word

#### 2.3 Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

The product does not contain any ingredients designated as Endocrine disrupting properties.

---

### Section 3. Composition/information on ingredients

Mixture/Substance selection:

#### 3.2 Mixture

This product doesn't contain any substances listed in Table 3 of Annex VI in EU CLP.

Components contributing to the hazard

The product does not contain any ingredients listed in REACH SVHC candidate list.

Full text of classifications and hazard statements: see section 16

---

### Section 4. First-aid measures

#### 4.1 Descriptions of first-aid measures

General measures

Show this SDS, the product container or label when getting medical attention/advice.

**IF INHALED**

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

**IF ON SKIN (or hair)**

Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

---

**IF IN EYES**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.

If eye irritation persists: Get medical advice/attention.

**IF SWALLOWED**

Rinse mouth.

Call a POISON CENTER/doctor/physician if you feel unwell.

**4.2 Most important symptoms and effects, both acute and delayed**

Specific information on symptom and effect are unknown.

**4.3 Indication of any immediate medical attention and special treatment needed**

Information on indication of any immediate medical attention and special treatment needed is not available.

---

**Section 5. Fire–fighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Use appropriate extinguishing media suitable for surrounding facilities.

The product is non–flammable.

**Unsuitable extinguishing media**

Unsuitable extinguishing media data is not available.

**5.2 Specific hazards arising from the substance or mixture**

Fire may produce irritating, corrosive and/or toxic gases.

**5.3 Advice for firefighters**

**Specific fire–fighting measures**

Evacuate non–essential personnel to safe area.

Extinguish from the windward to the extent possible.

**Special protective equipment and precautions for fire–fighters**

Wear fire resistant or flame retardant clothing.

Firefighters should wear self–contained breathing apparatus with a full facepiece operated in the positive pressure mode.

---

**Section 6. Accidental release measures**

**6.1 Personnel precautions, protective equipment and emergency procedures**

Keep unauthorized personnel away.

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Stop leak if safe to do so.

**6.2 Environmental precautions**

Prevent spills from entering sewers, watercourses or low areas.

Do not wash away into sewers or waterway.

**6.3 Methods and materials for containment and cleaning up**

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

For large spill, dike for later disposal.

Fill the disposal into labelled, closable containers.

**6.4 Reference to other sections**

Refer to section 8

Refer to section 13

---

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

#### Preventive measures

(Exposure Control for handling personnel)

Avoid breathing mist/vapors/spray.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

#### Safety Measures

Use personal protective equipment as required.

Any incompatibilities data is not available.

Advice on general occupational hygiene

Do not get in eyes, on skin, or on clothing.

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

### 7.2 Storage

Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

Container and packaging materials for safe handling data is not available.

### 7.3 Specific end use(s)

Research reagent(3D immunostaining kit)

---

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

Adopted value

Adopted value in ACGIH is not available.

EU OEL value is not available.

### 8.2 Exposure controls

Appropriate engineering controls

Exhaust/ventilator should be available.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

Wear protective gloves. Recommended material(s): impermeable or chemical resistant rubber

Eye protection

Wear safety glasses with side-shields or chemical safety goggle.

Skin and body protection

Wear protective clothing.

---

## Section 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Physical state: Liquid

Color: Clear

Odor: None

Odor threshold data is not available.

Melting point/Freezing point data is not available.

---

Boiling point or initial boiling point data is not available.  
Boiling range data is not available.  
Flammability (gases, liquids and solids): Non-flammable  
Lower and upper explosion limit/flammability limit: Not applicable  
Flash point: Non-flammable  
Auto-ignition temperature: Not applicable  
Decomposition temperature data is not available.  
pH data is not available.  
Kinematic viscosity data is not available.  
Solubility:  
    Solubility in water: Soluble  
    Solubility in solvent data is not available.  
n-Octanol/water partition coefficient data is not available.  
Vapor pressure data is not available.  
Density and/or relative density data is not available.  
Relative vapor density (Air=1) data is not available.  
Particle characteristics: Not applicable

9.2 Other information  
    Other information is not available.

---

## Section 10. Stability and Reactivity

- 10.1 Reactivity  
    Reactivity data is not available.
- 10.2 Chemical stability  
    Stable under normal storage/handling conditions.
- 10.3 Possibility of hazardous reactions  
    Possibility of hazardous reactions data is not available.
- 10.4 Conditions to avoid  
    Conditions to avoid data is not available.
- 10.5 Incompatible materials  
    Incompatible materials data is not available.
- 10.6 Hazardous decomposition products  
    Hazardous decomposition products data is not available.

---

## Section 11. Toxicological Information

- 11.1 Information on toxicological effects
- Acute toxicity
- Acute toxicity (Oral)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.
- Acute toxicity (Dermal)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.
- Acute toxicity (Inhalation)  
        [Product]  
        Classification not possible (Insufficient data available or no data available).  
        [Data for components of the product]  
        No data available.

Irritant properties

Skin corrosion/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Serious eye damage/irritation

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Sensitization

Respiratory sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Skin sensitization

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Germ cell mutagenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Carcinogenicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Reproductive toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Specific target organ toxicity (STOT)

STOT–single exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

STOT–repeated exposure

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

Aspiration hazard

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

---

11.2 Information on other hazards

Endocrine disrupting properties is not available.

---

Section 12. Ecological Information

12.1 Toxicity

Aquatic toxicity

[Product]

Classification not possible (Insufficient data available or no data available).

[Data for components of the product]

No data available.

12.2 Persistence and degradability

Persistence and degradability data is not available.

12.3 Bioaccumulative potential

Bioaccumulative potential data is not available.

12.4 Mobility in soil

Mobility in soil data is not available.

12.5 Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

12.6 Endocrine disrupting properties

Endocrine disrupting properties is not available.

12.7 Other adverse effects

Ozone depleting chemical data is not available.

---

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

13.1 Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

Dispose to an authorized waste collection point.

Do not dump into sewers, on the ground or into any body of water.

Contaminated packing

Dispose of container after using the contents completely.

---

Section 14. Transport Information

UN No., UN CLASS

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road)

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

ADN (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)

14.1 UN Number or ID Number : Not applicable

14.2 UN Proper Shipping Name : Not applicable

14.3 Class or division (Transport hazard class) : Not applicable

14.4 Packing group : Not applicable

---

RID (Regulation concerning the International Carriage of Dangerous goods by Rail)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

IMDG Code (International Maritime Dangerous Goods Regulations)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

IATA (Dangerous Goods Regulations)

- 14.1 UN Number or ID Number : Not applicable
- 14.2 UN Proper Shipping Name : Not applicable
- 14.3 Class or division (Transport hazard class) : Not applicable
- 14.4 Packing group : Not applicable

14.5 Environmental hazards

Marine pollutants (yes/no) : no

14.6 Special precautions for user

Special precautions for user is not applicable.

14.7 Maritime transport in bulk according to IMO instruments

This product is not intended to be carried in bulk.

---

Section 15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

The product does not contain any ingredients listed in REACH SVHC candidate list.

Other information is not available.

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

15.2 Chemical safety assessment

Advice on safe handling for this product can be found in sections 7 and 8 of this SDS.

---

Section 16. Other information

GHS classification and labelling

Not classified/Classification not possible

References and sources for data

- Globally Harmonized System of classification and labelling of chemicals, UN
- Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN
- IMDG Code, 2020 Edition (Incorporating Amendment 40–20)
- IATA Dangerous Goods Regulations (64th Edition) 2023
- EU REGULATION (EC) No. 1272/2008 (CLP), amended by COMMISSION REGULATION (EU) 2019/521
- 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)
- 2022 TLVs and BEIs. (ACGIH)
- Supplier's data/information
- GESTIS–Stoffdatenbank
- Pub Chem (OPEN CHEMISTRY DATABASE)

Abbreviations and acronyms

- ACGIH – American Conference of Governmental Industrial Hygienists;
- ADN – European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;
- ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road;
- ATE – Acute Toxicity Estimate; BCF – Bioconcentration Factor; BOD – Biochemical Oxygen Demand;
- Cat. – Category; Ceiling–C – Ceiling value;

---

CLP – Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures;  
COD – Chemical Oxygen Demand; DSEN – Dermal Sensitization;  
EC No. – The European Community number; EC50 – Effective Concentration 50; EU – European Union;  
GHS – Globally Harmonized System of Classification and Labelling of Chemicals;  
IARC – International Agency for Research on Cancer; IATA – International Air Transport Association;  
IBC Code – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;  
IMDG Code – International Maritime Dangerous Goods Code; LC50 – Lethal Concentration 50;  
LD50 – Lethal Dose 50; logPow – n-Octanol/water Partition Coefficient;  
LTEL – eight-hour time weighted average;  
MARPOL – International Convention for the Prevention of Pollution from Ships;  
M-factor – Multiplying factors; NOEC – No Observed Effect Concentration;  
NTP – National Toxicology Program; PBT – Persistent, Bioaccumulative and Toxic substances;  
REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No.1907/2006;  
RID – Regulation concerning the International Carriage of Dangerous goods by Rail;  
RSEN – Respiratory Sensitization; SCL – Specific Concentration Limit;  
Skin – Danger of cutaneous absorption; STEL – Short-term Exposure Limit;  
STOT – Specific target organ toxicity; SVHC – Substance of Very High Concern;  
TWA – time-weighted average; UN – United Nations;  
vPvB – Very Persistent and very Bioaccumulative substances

#### General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety. The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 17/12/2022 and Commission delegated regulation (EU) 2022/692 (ATP18)).