

# Safety Data Sheet (SDS)

In accordance with OSHA HCS 2012

## Section 1 - Chemical Product and Company Identification

### 1.1 Product Identification:

Product Name: MESG Top Coat Part A  
Product Model: /

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

Identified uses: MESG Top Coat Part A  
Use advised against: No data available.

### 1.3 Details of the Manufacture or supplier

Manufacture: MESG Products Pte. Ltd.  
Address: 3 Ang Mo Kio Street 62, Link@AMK, #01-28, Singapore (569139)  
Telephone: +65 6902 3188  
Fax: +65 6983 4388  
Email: support@mesgshop.com

### 1.4 Emergency telephone number

Emergency Telephone: +65 8788 7076

## Section 2 - Hazards Identification

### 2.1 Classification of the substance or mixture

#### GHS Classification in accordance with OSHA Hazard Communication Standards (29 CFR 1910.1200)

This product is not classified as hazardous.

### 2.2 GHS Label elements, including precautionary statements

**Pictogram(s):** No pictogram is used.  
**Signal Word:** No signal word is used.  
**Hazard Statement:** No hazard statement.  
**Precautionary statements:** No precautionary statement.

### 2.3 Description of any hazards not otherwise classified

No additional information available.

## Section 3 - Composition/Information on Ingredient

Substance ( ) Preparation (✓) Article ( )

Chemical name	CAS No.	Content (%)
Water based acrylic resin	-	80%
Water	7732-18-5	10%
2-(2-butoxyethoxy)ethanol	112-34-5	10%

Abbreviation: CAS No. is Chemical Abstract Service Registry Number.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures:

**Eye Contact:** Flush eyes with plenty of water for several minutes, occasionally lifting the upper and lower eyelids. If eye irritation continues, contact a doctor.

**Skin Contact:** Wash off with soap and plenty of water. If skin irritation continues, contact a doctor.

**Inhalation:** If necessary, Remove to fresh air and keep at rest in a position comfortable for breathing.

**Ingestion:** Wash out mouth with water and drink appropriate amount of water. Seek medical attention.

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

The most important known symptoms and effects are described in section 2 and section 11.

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

Treat symptomatically and supportively.

## Section 5 - Extinguishing media

### 5.1 Extinguishing media

**Suitable extinguishing media:** Water spray, dry chemical, carbon dioxide or alcohol-resistant foam.

**Unsuitable extinguishing media:** None known.

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

Decomposition products under fire condition - carbon monoxide, carbon dioxide, etc.

### 5.3 Advice for firefighters

As in any fire, Wear self-contained breathing apparatus and full protective gear for firefighting if necessary.

### 5.4 Further information

No data available.

## Section 6 - Accidental Release Measures

For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

### 6.1 Personal precautions, protective equipment and emergency procedures:

Evacuate area. Ventilate area. Avoid direct contact with spillage. Use suitable personal protective equipment.

### 6.2 Environmental precautions:

Stop leakage if safe. Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

Small Spill: Absorb with dry sand or other inert adsorption material.

Large Spill: Stop leak if without risk. Contain spillage, And then collect with an electrically protected vacuum cleaner or by wet-brushing and place in closed container. Keep in suitable, closed containers for recycle or disposal(see section 13).

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling:

The usual precautionary measures for handling chemicals should be followed.

Use appropriate, approved safety equipment as in section 8.

Avoid contact with skin and eyes.

Wash thoroughly after handling.

Keep container tightly closed when not in use.

### 7.2 Conditions for safe storage, including any incompatibilities:

Keep container tightly closed in a dry and cool place. Do not store together with strong oxidizing agent. Avoid direct sunlight.

## Section 8 - Exposure Controls, Personal Protection

**8.1 Exposure Limits:** Contains no substances with occupational exposure limit values.

## 8.2 Exposure controls

**Engineering Control:** General industrial hygiene practice.

### Personal protective equipment:

**Respiratory Protection:** Not required under normal usage.

**Eyes Protection:** Not required under normal usage. Use face shield and safety glasses if in-eye risk exists. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Body Protection:** Normal general work suit is enough.

**Hands Protection:** Handle with chemical-resistant gloves.

**Other Protections:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties	
Appearance	Liquid.
Color	Milky white.
Odor	Weak odor.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability	Not available.
Upper explosive limit % (V/V)	Not available.
Lower explosive limit % (V/V)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.

Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not available.
Ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

## Section 10 - Stability and Reactivity

**10.1 Stability:** Stable under normal storage temperature and pressure.

**10.2 Conditions to Avoid:** Overheat.

**10.3 Incompatible materials:** Strong oxidizing agents.

**10.4 Hazardous Decomposition Products:** Other decomposition products- no data available. In the event of fire:see section 5.

**10.5 Possibility of hazardous reactions:** None hazardous reactions known under normal condition.

## Section 11 - Toxicological Information

<b>Acute Toxicity:</b>	No data available.
<b>Skin Corrosion/Irritation:</b>	No known irritating effect.
<b>Serious Eye Damage/Eye Irritation:</b>	Based on available data, the classification criteria are not met.
<b>Respiratory or Skin Sensitization</b>	No known sensitization effect.
<b>Germ Cell Mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity:</b>	None of the components of this product is listed as a carcinogen by IARC, NTP, US OSHA .
<b>Reproductive Toxicity:</b>	Based on available data, the classification criteria are not met.
<b>Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System):</b>	Based on available data, the classification criteria are not met.
<b>Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System):</b>	Based on available data, the classification criteria are not met.
<b>Aspiration Hazard:</b>	Based on available data, the classification criteria are not met.
<b>Potential Health Effects:</b>	
<b>Inhalation:</b>	No significant effect or harm under normal condition.

<b>Skin Contact:</b>	No significant effect or harm under normal condition.
<b>Eye Contact:</b>	May cause slight eye irritation.
<b>Ingestion:</b>	May be harmful if ingested.

## Section 12 - Ecological Information

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects

Do not allow materials to release to drains or water body.

## Section 13 - Disposal Considerations

### Waste treatment methods

#### Product

Recycle if possible. Offer surplus and non-recyclable products to a licensed disposal company. Observe according to the national and local related regulations.

#### Contaminated packaging

Disposal as unused product after empty. Return to supplier for recycling if possible.

## Section 14 - Transport Information

### ADR/RID Information

**ADR-UN Number:** Not regulated for transport  
**ADR-Class:** Not regulated for transport  
**ADR-Shipping Name:** Not regulated for transport  
**ADRPacking Group:** Not regulated for transport

#### IATA/ICAO Information

The product is not subject to IATA DGR.  
**IATA-UN Number:** Not regulated for transport  
**IATA-Class:** Not regulated for transport  
**IATA-Shipping Name:** Not regulated for transport  
**IATA-Label:** None  
**IATA-Packing Group:** Not regulated for transport  
**IATA-S.P.:** None  
**IATA-ERG:** None

#### IMO/IMDG Information

The product is not subject to IMO/ IMDG Code.  
**IMDG-Marine Pollutant:** No  
**IMDG-UN Number:** Not regulated for transport  
**IMDG-Class:** Not regulated for transport  
**IMDG-Shipping Name:** Not regulated for transport  
**IMDG-Packing group:** Not regulated for transport  
**IMDG-Storage Category:** Not regulated for transport

## Section 15 - Regulatory Information

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

No data available.

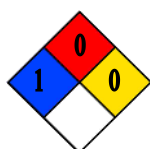
### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

## Section 16 - Additional Information

### HMIS Rating

Health hazard: 1



Flammability: 0

Physical Hazard 0

**NFPA Rating**

Health hazard: 1

Fire Hazard: 0

Reactivity Hazard: 0

HEALTH	1
FIRE	0
REACTIVITY	0
PPE	<input type="checkbox"/>

**16.1 Reference**

- [1] IPCS:The International Chemical Safety Cards (ICSC) website: <http://www.ilo.org/dyn/icsc/showcard.home>
- [2] EU REACH Registered Substance Database website: <http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>
- [3] OECD: The Global Portal to Information on Chemical Substances, website: [http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)
- [4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>
- [5] NLM:ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>
- [6] EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>
- [7] U.S. Department of Transportation:ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>
- [8] Germany GESTIS-database on hazard substance website: <http://gestis-en.itrust.de/>
- [9] IARC website: <http://www.iarc.fr/>

**16.2 Abbreviations and acronyms**

PC-STEL	Short term exposure limit
PC-TWA	Time Weighted Average
IARC	International Agency for Research on Cancer
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
EC50	Effective Concentration 50%
PBT	Persistent, Bioaccumulative, Toxic
vPvB	very Persistent, very Bioaccumulative
ADR	Agreement on Dangerous Goods by Road
IATA	International Air Transport Association
IMO	International Maritime Organization
IMDG	The International Maritime Dangerous Goods
ICAO	International Civil Aviation Organization
UN	The United Nations



NTP	National Toxicology Program
ACGIH	The American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
NIOSH	National Institute for Occupational Safety and Health

### 16.3 Disclaimer

-This safety data sheet was prepared in accordance with US OSHA Hazard Communication Standards (29 CFR 1910.1200).  
-The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product

### 16.4 Information on revision

MSDS Creation Date: November 21, 2022  
MSDS Revision Date: -  
Reason For Revision: -  
MSDS Edition: 1.0

\*\*\*\*\*End\*\*\*\*\*

# Safety Data Sheet (SDS)

In accordance with OSHA HCS 2012

## Section 1 - Chemical Product and Company Identification

### 1.1 Product Identification:

Product Name: MESG Top Coat Part B  
Product Model: /

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

Identified uses: MESG Top Coat Part B  
Use advised against: No data available.

### 1.3 Details of the Manufacture or supplier

Manufacture: MESG Products Pte. Ltd.  
Address: 3 Ang Mo Kio Street 62, Link@AMK, #01-28, Singapore (569139)  
Telephone: +65 6902 3188  
Fax: +65 6983 4388  
Email: support@mesgshop.com

### 1.4 Emergency telephone number

Emergency Telephone: +65 8788 7076

## Section 2 - Hazards Identification

### 2.1 Classification of the substance or mixture

**GHS Classification:** Flammable liquids, categories 3, H226  
Acute toxicity (inhalation), category 4, H332  
Skin sensitisation, category 1, H317  
Specific target organ toxicity - single exposure (Category 3), Respiratory irritation, H335

### 2.2 GHS Label elements, including precautionary statements

**GHS Labels:**

**Pictogram(s):****Signal Word:**

Warning

**Hazard Statement:**

H226: Flammable liquid and vapour

H317: May cause an allergic skin reaction.

H332: Harmful if inhaled

H335: May cause respiratory irritation

**Precautionary statement(s)****Prevention precautionary statements:**

P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking

P233: Keep container tightly closed

P240: Ground/bond container and receiving equipment

P241: Use explosion-proof electrical/ ventilating/ light equipment

P242: Use only non-sparking tools

P243: Take precautionary measures against static discharge

P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P264: Wash thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P272: Contaminated work clothing should not be allowed out of the workplace

P280: Wear protective gloves/protective clothing/eye protection/face protection

**Response Precautionary Statements:**

P303+361+353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P333+313: If skin irritation or a rash occurs: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse

P304 + P340 + P312: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

P370+P378: In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Storage Precautionary Statements:**

P405: Store locked up

P403+P233+235: Store in a well ventilated place. Keep container tightly closed. Keep cool.

**Disposal Precautionary Statements:**

P501: Dispose of contents and container in accordance with local/regional/national /international regulations.

**2.3 Description of any hazards not otherwise classified**

None. See section 11 for more detailed information on health effects and symptoms.

### Section 3 - Composition/Information on Ingredient

Substance ( ) Preparation (√) Article ( )

Chemical name	CAS No.	Content (%)
Hexamethylene diisocyanate based homopolymer	28182-81-2	80%
2-methoxy-1-methylethyl acetate	108-65-6	20%

Abbreviation: CAS No. is Chemical Abstract Service Registry Number.

### Section 4 - First Aid Measures

#### 4.1 Description of first aid measures:

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation occurs and persists, contact a doctor.

**Skin Contact:** Remove and isolate contaminated clothing and shoes. Wash off with soap and plenty of water. If irritation occurs and persists, contact a doctor.

**Inhalation:** Move victim to fresh air. Apply artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult. Get medical attention.

**Ingestion:** Do not induce vomiting. If the person is conscious, wash out mouth with water. Never give anything by mouth to an unconscious person. Consult a physician immediately.

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

The most important known symptoms and effects are described in section 2 and section 11.

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

Treat symptomatically and supportively.

### Section 5 -Extinguishing media

#### 5.1Extinguishing media

Suitable extinguishing media: Use alcohol-resistant foam, dry chemical or carbon dioxide. Use water fog to cool the unopened containers involved in fire.

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter or spread fire.

### **5.2 Special hazards arising from the substance or mixture**

Liquid and vapor are flammable. Vapor can form explosive mixture with air. Vapor may travel to source of ignition and flash back. Containers may explode when heated. Gives off irritating fumes (or gases) and combustion product(Carbon monoxide, carbon dioxide, ) in a fire.

### **5.3 Advice for firefighters**

Evacuate personnel to safe areas. As in any fire, Wear self-contained breathing apparatus and full protective gear for firefighting. Fire fighting from a safe distance.

### **5.4 Further information**

Use water fog to cool down unopened container involved in fire. Prevent fire extinguishing water from contaminating surface water or the ground water source.

## **Section 6 - Accidental Release Measures**

For guidance on selection of personal protective equipment see Chapter 8 of this Material Safety Data Sheet. See Chapter 13 for information on disposal. Observe the relevant local and international regulations.

### **6.1 Personal precautions, protective equipment and emergency procedures:**

Evacuate area. Ventilate area. Avoid direct contact with spillage. Avoid inhaling vapor. Use suitable personal protective equipment.

### **6.2 Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

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

Small quantities may be contained by inert material(sand, diatomite, acid binders, universal binders, sawdust). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Gather the spilled product and keep in suitable, closed containers for recycle or disposal(see section 13).

## **Section 7 - Handling and Storage**

### **7.1 Precautions for safe handling:**

The usual precautionary measures for handling chemicals should be followed.

Untrained individuals should not handle this chemical or its container.

Use in well-ventilated area.

Use appropriate, approved safety equipment as in section 8.

Avoid contact with skin and eyes. Avoid breathing vapor or mist.

Wash thoroughly after handling.

Keep away from heat/sparks/open flames/overheat .

Keep container tightly closed when not in use.

Do not eat, drink or smoke at the workplace.

Keep away from strong oxidides. Equip with fire fight and accidental release equipment.

For precautions see section 2.

#### **7.2 Conditions for safe storage, including any incompatibilities:**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Store away from foodstuffs. Do not store together with strong oxidizing agent. Keep away from heat/sparks/open flames/overheat . Avoid direct sunlight. Equip with fire fight and accidental release equipment in storage area.

## **Section 8 - Exposure Controls, Personal Protection**

**8.1 Exposure Limits:** Contains no substances with occupational exposure limit values

### **8.2 Exposure controls**

**Engineering Control:** General industrial hygiene practice. Provide appropriate exhaust ventilation. Provide safe shower and eye wash fountain.

#### **Personal protective equipment:**

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Eyes Protection:** Use face shield and safety glasses if in-eye risk exists. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Body Protection:** Normal general work suit is enough. If liquid splash exists, wear chemical resistant complete suit, The type of protective equipment must be selected according to the

concentration and amount of the dangerous substance at the specific workplace.

**Hands Protection:** Handle with chemical-resistant gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

**Other Protections:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties	
Appearance	Liquid.
Color	Clear.
Odor	Weak odor.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	45.5 °C - closed cup, 2-methoxy-1-methylethyl acetate
Evaporation rate	Not available.
Flammability	Not available.
Upper explosive limit % (V/V)	7%-2-methoxy-1-methylethyl acetate.
Lower explosive limit % (V/V)	1.5%-2-methoxy-1-methylethyl acetate.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	Not available.
Ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

## Section 10 - Stability and Reactivity

**10.1 Stability:** Stable under normal storage temperature and pressure.

**10.2 Conditions to Avoid:** Heat, flames and sparks. Avoid direct sunlight.

**10.3 Incompatible materials:** Strong oxidizing agents.

**10.4 Hazardous Decomposition Products:** Other decomposition products- no data available. In the event of fire: see section 5.

**10.5 Possibility of hazardous reactions:** None hazardous reactions known under normal condition.

## Section 11 - Toxicological Information

<b>Acute Toxicity:</b>	Products are not classified according to available data.
<b>Skin Corrosion/Irritation:</b>	Based on available data, the classification criteria are not met.
<b>Serious Eye Damage/Eye Irritation:</b>	Based on available data, the classification criteria are not met.
<b>Respiratory or Skin Sensitization</b>	May cause an allergic skin reaction.
<b>Germ Cell Mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity:</b>	None of the components of this product is listed as a carcinogen by IARC, NTP, US OSHA.
<b>Reproductive Toxicity:</b>	Based on available data, the classification criteria are not met.
<b>Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System):</b>	May cause respiratory irritation.
<b>Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System):</b>	Based on available data, the classification criteria are not met.
<b>Aspiration Hazard:</b>	Based on available data, the classification criteria are not met.
<b>Potential Health Effects:</b>	
<b>Inhalation:</b>	May cause respiratory irritation.
<b>Skin Contact:</b>	May cause an allergic skin reaction.
<b>Eye Contact:</b>	May cause eye irritation.
<b>Ingestion:</b>	Not an expected route of exposure. May be harmful if ingested.

## Section 12 - Ecological Information



**12.1 Toxicity**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data available

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects**

Do not allow materials to release to drains or water body.

## Section 13 - Disposal Considerations

**Waste treatment methods****Product**

Recycle if possible. Offer surplus and non-recyclable products to a licensed disposal company. Observe according to the national and local related regulations.

**Contaminated packaging**

Containers may still present chemical hazard when empty. Return to supplier for recycling if possible or disposed according local regulation. Keep away from heat.

## Section 14 - Transport Information

**ADR/RID, IATA/ICAO, IMO/IMDG Information**

<b>UN-Number</b>	1263
<b>UN proper shipping name</b>	PAINT
<b>Transport hazard class(es)</b>	
Class	3

Label



Packing group

III

Environmental hazards

Marine pollutants(Yes/No): No

Special precautions for user

Read the product manual, MSDS, emergency procedures, etc. before operation.

Transport in bulk according to Annex 1 of Marpol and the IBC Code

No data available.

## Section 15 - Regulatory Information

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

No data available.

### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

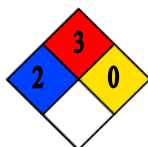
## Section 16 - Additional Information

### HMIS Rating

Health hazard: 2

Flammability: 3

Physical Hazard: 0



### NFPA Rating

Health hazard: 2

Fire Hazard: 3

Reactivity Hazard: 0

HEALTH	2
FIRE	3
REACTIVITY	0
PPE	<input type="checkbox"/>

### 16.1 Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC) website: <http://www.ilo.org/dyn/icsc/showcard.home>
- [2] EU REACH Registered Substance Database website: <http://echa.europa.eu/web/guest/information-on-chemicals/regi>

- stered-substances
- [3] OECD: The Global Portal to Information on Chemical Substances, website: [http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)
- [4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>
- [5] NLM:ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>
- [6] EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>
- [7] U.S. Department of Transportation:ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>
- [8] Germany GESTIS-database on hazard substance website: <http://gestis-en.itrust.de/>
- [9] IARC website: <http://www.iarc.fr/>

## 16.2 Abbreviations and acronyms

PC-STEL	Short term exposure limit
PC-TWA	Time Weighted Average
IARC	International Agency for Research on Cancer
LC50	Lethal Concentration 50%
LD50	Lethal Dose 50%
EC50	Effective Concentration 50%
PBT	Persistent, Bioaccumulative, Toxic
vPvB	very Persistent, very Bioaccumulative
ADR	Agreement on Dangerous Goods by Road
IATA	International Air Transport Association
IMO	International Maritime Organization
IMDG	The International Maritime Dangerous Goods
ICAO	International Civil Aviation Organization
UN	The United Nations
NTP	National Toxicology Program
ACGIH	The American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety and Health Administration
NIOSH	National Institute for Occupational Safety and Health

## 16.3 Disclaimer

-This safety data sheet was prepared in accordance with US OSHA Hazard Communication Standards (29 CFR 1910.1200).

-The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product

**16.4 Information on revision**

MSDS Creation Date: November 21, 2022  
MSDS Revision Date: -  
Reason For Revision: -  
MSDS Edition: 1.0

\*\*\*\*\*End\*\*\*\*\*