screw locking Article number 26708, 26707



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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

screw locking

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

1.2.1 Relevant uses

Adhesive

1.2.2 Uses advised against

None known.

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

Company Ferdinand Bilstein GmbH + Co. KG

Wilhelmstr. 47

58256 Ennepetal / GERMANY Phone +49 2333 911-0 Fax +49 2333 911-444 Homepage www.febi.com E-mail info@febi.com

Address enquiries to

Technical information info@febi.com
Safety Data Sheet info@febi.com

1.4 Emergency telephone number

**Advisory body** +49 (0)89-19240 (24h) (English)

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

Eye Irrit. 2: H319 Causes serious eye irritation.

Skin Sens. 1: H317 May cause an allergic skin reaction. STOT SE 3: H335 May cause respiratory irritation.

STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.

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#### 2.2 Label elements

The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200

(HCS 2012)

Hazard pictograms

<u>(!</u>)

Signal word WARNING

Contains: Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1

2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0

Cumene hydroperoxide, CAS: 80-15-9 2'-Phenylacetohydrazide, CAS: 114-83-0

**Hazard statements** H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction. H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children. P260 Do not breathe vapors/spray.

P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water/soap.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTER/doctor if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container to in accordance with local/regional/national/international

regulation.

## 2.3 Other hazards

**Human health dangers** Frequent persistent contact with the skin can cause skin irritation.

**Environmental hazards** Does not contain any PBT or vPvB substances.

Contains no ingredients with endocrine-disrupting properties.

Other hazards Further hazards were not determined with the current level of knowledge.

This product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200.

## **SECTION 3: Composition / Information on ingredients**

#### 3.1 Substances

Not applicable

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#### 3.2 Mixtures

#### The product is a mixture.

Range [%]	Substance
20 -<50	Methacrylic acid, monoester with Propan-1,2-diole
	CAS: 27813-02-1
5 - <20	2,2'-Ethylenedioxydiethyl dimethacrylate
	CAS: 109-16-0
<1,5	Cumene hydroperoxide
	CAS: 80-15-9
0,1 - <1	2'-Phenylacetohydrazide
	CAS: 114-83-0
<0,05	1,4-Dihydroxybenzene
	CAS: 123-31-9

Comment on component parts

For full text of H-statements: see SECTION 16.

## **SECTION 4: First aid measures**

### **Description of first aid measures**

General information Change soaked clothing.

Inhalation Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

Skin contact When in contact with the skin, clean with soap and water.

Consult a doctor if skin irritation persists.

Eye contact 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.

Ingestion Seek medical advice immediately.

Rinse out mouth and give plenty of water to drink.

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

Allergic reactions Irritant effects

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

Treat symptomatically.

Forward this sheet to the doctor.

## **SECTION 5: Fire-fighting measures**

### **Extinguishing media**

Suitable extinguishing media Foam, dry powder, water spray jet, carbon dioxide.

Extinguishing media that must not

be used

Full water jet.

## 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

Carbon monoxide (CO) Nitrogen oxides (NOx).

## Advice for firefighters

Use self-contained breathing apparatus.

Wear full protective suit.

Collect contaminated firefighting water separately, must not be discharged into the drains. Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

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## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Use personal protective equipment.

#### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater.

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

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth). Dispose of absorbed material in accordance within the regulations.

## 6.4 Reference to other sections

See SECTION 8+13

## **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Use only in well-ventilated areas.

Keep away from all sources of ignition - Refrain from smoking.

Contaminated work clothing should not be allowed out of the workplace.

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

Wash hands before breaks and after work.

Use barrier skin cream.

Take off contaminated clothing and wash before reuse.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Do not use metal containers.

Do not store together with acids.

Do not store together with oxidizing agents.

Do not store together with food and animal food/diet.

Protect from heat/overheating.

Keep in a cool place. Store in a dry place.

Recommended storage temperature: +5°C - +25°C

## 7.3 Specific end use(s)

This product is not recommended for use in joints which will be in contact with either pure oxygen or steam.

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## **SECTION 8: Exposure controls/personal protection**

Substance

Substance

## 8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (US)

Not applicable

### **DNEL**

Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1	
Industrial, inhalative, Long-term - systemic effects, 14.7 mg/m³ (AF=18)	
Industrial, dermal, Long-term - systemic effects, 4.2 mg/kg bw/d (AF=72)	
general population, dermal, Long-term - systemic effects, 2.5 mg/kg bw/d (AF=120)	
general population, oral, Long-term - systemic effects, 2.5 mg/kg bw/d (AF=120)	
general population, inhalative, Long-term - systemic effects, 8.8 mg/m³ (AF=30)	
2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0	
Industrial, inhalative, Long-term - systemic effects, 48.5 mg/m³ (AF=18)	
Industrial, dermal, Long-term - systemic effects, 13.9 mg/kg bw/d (AF=72)	
general population, dermal, Long-term - systemic effects, 8.33 mg/kg bw/d (AF=120)	
general population, inhalative, Long-term - systemic effects, 14.5 mg/m³ (AF=69)	
general population, oral, Long-term - systemic effects, 8.33 mg/kg bw/d (AF=120)	

## **PNEC**

Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1		
freshwater, 0.904 mg/L (AF=50)		
seawater, 0.904 mg/L (AF=50)		
sewage treatment plants (STP), 10 mg/L (AF=10)		
sediment (freshwater), 6.28 mg/kg dw		
sediment (seawater), 6.28 mg/kg dw		
soil, 0.727 mg/kg dw		
2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0		
freshwater, 0.016 mg/L (AF=1000)		
seawater, 0.002 mg/L (AF=10 000)		
sewage treatment plants (STP), 1.7 mg/L (AF=10)		
sediment (freshwater), 0.185 mg/kg dw		
sediment (seawater), 0.018 mg/kg dw		
soil, 0.027 mg/kg dw		

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#### 8.2 Exposure controls

Additional advice on system design 
Ensure adequate ventilation on workstation.

Measurement methods for taking workplace measurements must meet the performance

requirements of DIN EN 482. For example, recommendations are given in the IFA's list of

hazardous substances.

**Eye protection** Safety glasses. (EN 166:2001)

**Hand protection** The details concerned are recommendations. Please contact the glove supplier for further

information. In full contact:

0,7 mm Butyl rubber, >480 min (EN 374-1/-2/-3).

In splash contact:

0,45 mm Nitrile rubber, >480 min (EN 374-1/-2/-3).

**Skin protection** Alkali-resistant protective clothing (EN 340)

Other Avoid contact with eyes and skin.

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

**Respiratory protection** Breathing apparatus in the event of aerosol or mist formation.

In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear

appropriate respiratory protection.

Short term: filter apparatus, filter A. (DIN EN 14387)

Thermal hazards Not applicable

Delimitation and monitoring of the

environmental exposition

Comply with applicable environmental regulations limiting discharge to air, water and soil.

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## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical stateLiquidFormpastyColorblue

Odor characteristic
Odor threshold Not determined

pH-value 3-4

pH-value [1%] Not applicable

Boiling point or initial boiling point

and boiling range [°C]

240

Flash point [°C] 96
Flammability yes

Lower explosion limitNot applicableUpper explosion limitNot applicable

Oxidizing properties No

Vapor pressure/gas pressure [kPa] Not determined

**Density [g/cm³]** 1,0 - 1,1

Relative density

Bulk density [kg/m³]

Not applicable

Solubility in water

Not applicable

partially soluble

Solubility other solvents No information available.

Partition coefficient n-octanol/water

(log value)

Not determined

Kinematic viscosity 1900 - 7500 mm<sup>2</sup>/s (40°C)

Relative vapour density

Not determined

Melting point [°C]

Not determined

Auto-ignition temperature [°C] > 400

Decomposition temperature [°C]Not determinedParticle characteristicsNot applicable

9.2 Other information

None

## **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

See SECTION 10.3.

## 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Reactions with oxidizing agents. Reactions with strong acids.

#### 10.4 Conditions to avoid

See SECTION 7.2. Strong heating.

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## 10.5 Incompatible materials

Oxidizing agent strong acids Various metals.

## 10.6 Hazardous decomposition products

Irritant gases/vapors.

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## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

Acute oral toxicity

Product

oral, Based on the information available, the classification criteria have not been fulfilled.

Substance

1,4-Dihydroxybenzene, CAS: 123-31-9

LD50, oral, Rat, 375 mg/kg

Cumene hydroperoxide, CAS: 80-15-9

LD50, oral, Rat, 382 mg/kg (IUCLID)

Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1

LD50, oral, Rat, > 2000 mg/kg (OECD 401)

2'-Phenylacetohydrazide, CAS: 114-83-0

ATE, oral, 100 mg/kg

2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0

LD50, oral, Rat, 2000 - 5000 mg/kg bw

#### Acute dermal toxicity

Product

dermal, Based on the information available, the classification criteria have not been fulfilled.

Substance

1,4-Dihydroxybenzene, CAS: 123-31-9

LD50, dermal, Rabbit, 2000 mg/kg

Cumene hydroperoxide, CAS: 80-15-9

LDLo, dermal, Rat, 500 mg/kg (IUCLID)

Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1

LD50, dermal, Rabbit, > 5000 mg/kg

2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0

LD50, dermal, mouse, > 2000 mg/kg bw

## Acute inhalational toxicity

Product

inhalative, Based on the information available, the classification criteria have not been fulfilled.

Substance

Cumene hydroperoxide, CAS: 80-15-9

LC50, inhalative, Rat, 220 ppm/4h (IUCLID)

LC50, inhalative, Rat, 1,37 mg/l/4h (GESTIS)

Serious eye damage/irritation

Based on the information available, the classification criteria have been fulfilled.

Irritant

Calculation method

Substance

Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1

Eye, Rabbit, irritant

2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0

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Eye, Rabbit, OECD 405, non-irritating

Skin corrosion/irritation

Based on the information available, the classification criteria have not been fulfilled.

Substance

Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1

dermal, Rabbit, non-irritating

2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0

dermal, Rabbit, In vivo study, non-irritating

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Based on the information available, the classification criteria have been fulfilled.

Calculation method

Substance

Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1

dermal, mouse, Study, sensitising

2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0

dermal, Mouse (female), OECD 429, sensitising

Specific target organ toxicity single exposure Based on the information available, the classification criteria have been fulfilled.

May cause respiratory irritation.

The classification occurred based on substance-specific concentration limits.

Specific target organ toxicity — repeated exposure

Based on the information available, the classification criteria have been fulfilled.

May cause damage to organs through prolonged or repeated exposure.

Substance

Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1

NOAEL, oral, Rat, 300 mg/kg bw/day, OECD 422

NOAEC, inhalative, Rat, 100 ppm, OECD 413

2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0

NOAEL, oral, Rat, 1000 mg/kg bw/day, OECD 422, no adverse effect observed

NOAEL, dermal, mouse, 2000 mg/kg bw/day, In vivo study, no adverse effect observed

NOAEC, inhalative, Rat, 100 ppm, OECD 413

Mutagenicity

Based on the information available, the classification criteria have not been fulfilled.

Substance

Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1

in vitro, OECD 472, negativ

2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0

in vitro, OECD 471, negativ

Reproduction toxicity

Based on the information available, the classification criteria have not been fulfilled.

- Fertility

Substance

Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1

NOAEL, oral, Rat, 1000 mg/kg, OECD 422

2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0

NOAEL, oral, Rat, 1000 mg/kg bw/day, OECD 422, no adverse effect observed

- Development

Substance

Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1

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NOAEL, oral, Rat, 1000 mg/kg, OECD 422

2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0

NOAEL, oral, Rat, 1000 mg/kg bw/day, OECD 414, no adverse effect observed

Carcinogenicity

Based on the information available, the classification criteria have not been fulfilled.

Substance

Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1

LOAEC, inhalative, Rat, 1,03 mg/L air, OECD 451, no adverse effect observed

2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0

NOAEL, dermal, mouse, 1000 mg/kg bw/day, In vivo study, no adverse effect observed

Aspiration hazard

Based on the information available, the classification criteria have not been fulfilled.

**General remarks** 

Toxicological data of complete product are not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product

Based on the information available, the classification criteria have not been fulfilled.

Substance

1,4-Dihydroxybenzene, CAS: 123-31-9

LC50, (96h), fish, 638 µg/L

EC50, (48h), Invertebrates, 61 - 134 μg/L

EC50, (72h), Algae, 33 - 330 µg/L

Cumene hydroperoxide, CAS: 80-15-9

LC50, (96h), Oncorhynchus mykiss, 3,9 mg/l (IUCLID)

LC50, (48h), Leuciscus idus, 17 mg/l (IUCLID)

EC50, (24h), Daphnia magna, 7 mg/l (IUCLID)

EC10, Pseudomonas putida, 103 mg/l/18h (IUCLID)

Methacrylic acid, monoester with Propan-1,2-diole, CAS: 27813-02-1

LC50, (48h), Leuciscus idus, 493 mg/l (DIN 38412)

EC50, (48h), Daphnia magna, 143 mg/l (OECD 202)

EC50, (72h), Pseudokirchneriella subcapitata, 97,2 mg/l (OECD 201)

NOEC, (21d), Daphnia magna, 24,1 mg/l (OECD 202)

NOEC, (72h), Pseudokirchneriella subcapitata, 97,2 mg/l (OECD 201)

2,2'-Ethylenedioxydiethyl dimethacrylate, CAS: 109-16-0

LC50, (96h), Brachidanio rerio, 16.4 mg/L

EC50, (72h), Pseudokirchneriella subcapitata, > 100 mg/L

EC50, (21d), Daphnia magna, 51.9 mg/L

## 12.2 Persistence and degradability

Behaviour in environment

Not determined

compartments

Not applicable

Behaviour in sewage plant Biological degradability

Not applicable

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#### 12.3 Bioaccumulative potential

Product has having no bioaccumulation potential.

## 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

## 12.6 Endocrine disrupting properties

Does not contain any relevant substances fulfilling the classification criteria.

#### 12.7 Other adverse effects

Do not discharge product unmonitored into the environment.

The product is insoluble in water.

## **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

**Product** 

Coordinate disposal with the disposal contractor/authorities if necessary.

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Contaminated packing should be disposed of as product waste.

RCRA Hazard Class (40CFR 261)

Waste must be disposed of in accordance with federal, state and local environmental control

regulations. Consult your local or regional authorities.

## **SECTION 14: Transport**

### 14.1 UN number

Transport by land according to

ADR/RID

Not applicable

Inland navigation (ADN) Not applicable

Marine transport in accordance with

IMDG

Not applicable

Air transport in accordance with IATA Not applicable

**DOT Road Shipment Information (49** Not applicable

CFR)

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14.2 UN proper shipping name

Transport by land according to ADR/RID

NO DANGEROUS GOODS

Inland navigation (ADN)

NO DANGEROUS GOODS

**IMDG** 

Marine transport in accordance with NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

DOT Road Shipment Information (49 Not applicable

CFR)

14.3 Transport hazard class(es)

Transport by land according to

ADR/RID

Not applicable

Inland navigation (ADN)

Not applicable

Marine transport in accordance with Not applicable

**IMDG** 

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable

CFR)

14.4 Packing group

Transport by land according to

ADR/RID

Not applicable

Inland navigation (ADN)

Not applicable

Marine transport in accordance with Not applicable

**IMDG** 

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable

CFR)

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#### 14.5 Environmental hazards

Transport by land according to

ADR/RID

No

Inland navigation (ADN) No

Marine transport in accordance with N

**IMDG** 

Air transport in accordance with IATA No

DOT Road Shipment Information (49 No

CFR)

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

#### **SECTION 15: Regulatory information**

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

**US Regulations** 

National regulations 29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA,

TSCA, California - Prop. 65

- SARA, 302 One or some ingredient(s) are listed under this regulation.

CAS 123-31-9

- SARA, 311 This product is classified as hazardous under SARA 311.

- SARA, 313 Does contain a relevant substance that meets the classification criteria.

CAS 123-31-9, 80-15-9

- CA Proposition 65 No chemical substances in this material are named on the California P65 list.

- TSCA All chemical substances in this material are included on or exempted from listing on the TSCA

Inventory.

- FDA No information available.

American Conference of Does contain a relevant substance that meets the classification criteria.

Governmental Industrial Hygienists -

CGIH

CAS 123-31-9

International Agency for Research on IARC: Group 3 CAS 123-31-9

Cancer IARC

National Toxicology Program - NTP Does contain a relevant substance that meets the classification criteria.

CAS 123-31-9, 114-83-0, 80-15-9

HAP-VOC VOC-content: < 40 %

Transport-regulations DOT-Classification, ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)

## 15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

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### **SECTION 16: Other information**

### 16.1 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists;

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route;

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses;

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure:

CAS = Chemical Abstracts Service;

CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;

CFR = Code of Federal Regulations;

CPR = Controlled Products Regulations;

DMEL = Derived Minimum Effect Level;

DNEL = Derived No Effect Level;

DOT = Department of Transportation;

EC50 = Median effective concentration;

EPA = Environmental Protection Agency;

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

IATA = International Air Transport Association;

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk;

IC50 = Inhibition concentration, 50%;

IMDG = International Maritime Code for Dangerous Goods;

IARC = International Agency of Research on Cancer;

IATA = International Air Transport Association;

TSCA = Toxic Substance Control Act;

HMIS = Hazardous Materials Identification System;

NFPA = National Fire Protection Association;

NIOSH = National Institute for Occupational Safety and Health;

OSHA = Occupational Safety and Health Administration;

LC50 = Lethal concentration, 50%;

LD50 = Median lethal dose, 50%;

MARPOL = International Convention for the Prevention of Marine Pollution from Ships;

PBT = Persistent, Bioaccumulative and Toxic substance;

PNEC = Predicted No-Effect Concentration;

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals;

SARA = Superfund Amendments and Reauthorization Act;

TLV®/TWA = Threshold limit value – time-weighted average; TLV®STEL = Threshold limit value – short-time exposure limit;

VOC = Volatile Organic Compounds;

vPvB = very Persistent and very Bioaccumulative;

## 16.2 Ratings

**Customs Tariff** Not determined

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#### **NFPA Ratings**



TOP, FLAMMABILITY: 1 - Slight Hazard LEFT, HEALTH: 2 - Moderate Hazard RIGHT, REACTIVITY: 1 - Slight Hazard BOTTOM, SPECIAL NOTICE: SEN - Sentisitizer

#### **HMIS Ratings**



- 2\*- Moderate chronic Hazard
- 1 Slight Hazard
- 1 Slight Hazard
- C Safety Glasses, Gloves and Protection Apron

#### PERSONAL PROTECTION:

- A Safety Glasses
- B Safety Glasses and Gloves
- C Safety Glasses, Gloves and Protection Apron
- D Face Shield, Gloves and Protection Apron
- E Safety Glasses, Gloves and Dust Respirator
- F Safety Glasses, Gloves, Protection Apron and Dust Respirator
- G Safety Glasses, Gloves and Vapor Respirator.
- H Splash Goggles, Gloves, Protection Apron and Vapor Respirator.
- I Safety Glasses, Gloves, Dust Respirator and Vapor Respirator.
- J Splash Goggles, Gloves, Protection Apron, Dust Respirator and Vapor Respirator.
- K Airline Mask or Hood, Gloves, Full Suit and Boots.
- X Personal protection rating to be supplied by user depending on use conditions

## **Modified position**

2.1, 2.2, 2.3, 3.1, 3.2, 4.1, 4.2, 5.2, 5.3, 6.1, 7.1, 7.2, 8.2, 9.1, 10.1, 10.3, 10.5, 10.6, 11.1, 12.1, 12.2, 12.6, 13.1, 15.1, 16.1, 16.2, 16.3