

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 01/01/2021

Reviewed on 01/01/2021

### 1 Identification

- **Product identifier**
- **Trade name:** POLYFLEX 112B RAPID-THANE F16307 GREY
- **Article number:** WP112B.6307
- **Application of the substance / the mixture**  
Polyur 112 DTM series is an aliphatic hybrid polyaspartic high gloss two-component finish for uses direct-to-metal. It offers an excellent gloss, color retention as well as excellent anti-corrosion protection. Mix ratio: 3:1 by volume
- **Uses advised against** Do not apply this product to a soggy surface
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Wasser Technologies  
4118 B PL NW, Suite B  
Auburn, WA 98001, US  
Phone 253-850-2967
- **Information department:** Product safety department
- **Emergency telephone number:**  
EMERGENCY PHONE NUMBERS:  
USA and Canada: 1-800 424-9300

### 2 Hazard identification

- **Classification of the substance or mixture**

Flammable Liquids - Category 3	H226 Flammable liquid and vapour.
Skin Irritation - Category 2	H315 Causes skin irritation.
Skin Sensitizer - Category 1	H317 May cause an allergic skin reaction.
Carcinogenicity – Category 2	H351 Suspected of causing cancer.
Reproductive Toxicity - Category 1B	H360 May damage fertility or the unborn child.
Specific Target Organ Toxicity - Repeated Exposure - Category 2	H373 May cause damage to the hearing organs through prolonged or repeated exposure.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



- **Signal word** Danger
- **Hazard-determining components of labeling:**  
xylene  
titanium dioxide  
ethylbenzene  
tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate
- **Hazard statements**  
H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H360 May damage fertility or the unborn child.  
H373 May cause damage to the hearing organs through prolonged or repeated exposure.

(Contd. on page 2)

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 01/01/2021

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Trade name: **POLYFLEX 112B RAPID-THANE F16307 GREY**

(Contd. of page 1)

### · Precautionary statements

Keep out of reach from children.

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

P102 Keep out of reach of children.

P103 Read label before use.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P242 Use non-sparking tools.

P243 Take actions to prevent static discharges.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

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

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment (see on this label).

P314 Get medical advice/attention if you feel unwell.

P362+P364 Take off contaminated clothing and wash it before reuse.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P370+P378 In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

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

### · Classification system:

#### · NFPA ratings (scale 0 - 4)



Health = 2

Fire = 3

Reactivity = 0

#### · HMIS-ratings (scale 0 - 4)



HEALTH 2 Health = \*2

FIRE 3 Fire = 3

REACTIVITY 0 Reactivity = 0

## 3 Composition/Information on ingredients

### · Chemical characterization: Mixtures

· Description: Mixture of the substances listed below with nonhazardous additions.

#### · Dangerous components:

1330-20-7	xylene	10-30% w/w *
13463-67-7	titanium dioxide	10-30% w/w *
100-41-4	ethylbenzene	5-10% w/w *

(Contd. on page 3)

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 01/01/2021

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**Trade name: POLYFLEX 112B RAPID-THANE F16307 GREY**

		(Contd. of page 2)
540-88-5	tert-butyl acetate	1-5% w/w *
110-43-0	methyl amyl ketone	1-5% w/w *
136210-30-5	tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate	1-5% w/w *
872-50-4	N-methyl-2-pyrrolidone	0.1-1% w/w *
111-42-2	2,2'-iminodiethanol	0.1-1% w/w *

\* Actual concentration ranges are withheld as a trade secret.

### 4 First-aid measures

- **Description of first aid measures**

- **General information:**

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

- **After eye contact:** Rinse opened eye for several minutes under running water.

- **After swallowing:** Rinse out mouth and then drink plenty of water.

- **Information for doctor:**

- **Most important symptoms and effects, both acute and delayed** No further relevant information available.

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

No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**

- **Suitable extinguishing agents:**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **For safety reasons unsuitable extinguishing agents:** Water with full jet

- **Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

- **Advice for firefighters** Not available

- **Protective equipment:** Mouth respiratory protective device.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

- **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

(Contd. on page 4)

CA

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 01/01/2021

Reviewed on 01/01/2021

Trade name: **POLYFLEX 112B RAPID-THANE F16307 GREY**

(Contd. of page 3)

See Section 13 for disposal information.

### 7 Handling and storage

- **Precautions for safe handling**  
 Ensure good ventilation/exhaustion at the workplace.  
 Open and handle receptacle with care.  
 Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
 Keep ignition sources away - Do not smoke.  
 Protect against electrostatic charges.  
 Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities** When decanting use electric bonding and grounding.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
 Store in a cool place.  
 Store receptacle in a well ventilated area.  
 Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/ Personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

#### 1330-20-7 xylene

EL	STEL: 150 ppm TWA: 100 ppm
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EV	STEL: 650 mg/m <sup>3</sup> , 150 ppm TWA: 435 mg/m <sup>3</sup> , 100 ppm
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#### 100-41-4 ethylbenzene

EL	TWA: 20 ppm IARC 2B
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EV	STEL: 540 mg/m <sup>3</sup> , 125 ppm TWA: 435 mg/m <sup>3</sup> , 100 ppm
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#### 540-88-5 tert-butyl acetate

EL	TWA: 200 ppm
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EV	TWA: 950 mg/m <sup>3</sup> , 200 ppm
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#### 110-43-0 methyl amyl ketone

EL	TWA: 50 ppm
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EV	TWA: 115 mg/m <sup>3</sup> , 25 ppm
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#### 872-50-4 N-methyl-2-pyrrolidone

EV	TWA: 400 mg/m <sup>3</sup>
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(Contd. on page 5)

CA

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## according to HPR, Schedule 1

Printing date 01/01/2021

Reviewed on 01/01/2021

**Trade name: POLYFLEX 112B RAPID-THANE F16307 GREY**

(Contd. of page 4)

### 111-42-2 2,2'-iminodiethanol

EL TWA: 2 mg/m<sup>3</sup>  
Skin, IARC 2B

EV TWA: 2 mg/m<sup>3</sup>

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

Use splash goggles, solvent resistant gloves. Long-sleeved clothing ideally made of cotton. A cartridge mask.

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Liquid

Color: Grey

· **Odor:** Aromatic

· **Odor threshold:** Not determined.

(Contd. on page 6)

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 01/01/2021

Reviewed on 01/01/2021

Trade name: **POLYFLEX 112B RAPID-THANE F16307 GREY**

(Contd. of page 5)

· <b>pH-value:</b>	Not determined.
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	136 °C
· <b>Flash point:</b>	28 °C
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· <b>Explosion limits:</b>	
<b>Lower:</b>	1.1 Vol %
<b>Upper:</b>	7 Vol %
· <b>Vapor pressure at 20 °C:</b>	6.7-8.2 hPa
· <b>Density at 20 °C:</b>	1.19 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic at 40 °C:</b>	>20.5 mm <sup>2</sup> /s
<b>VOC content:</b>	266 g/l / 2.22 lb/gal
· <b>Other information</b>	No further relevant information available.

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability** The product is stable at room temperature.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· <b>LD/LC50 values that are relevant for classification:</b>		
1330-20-7 xylene		
Oral	LD50	4,300 mg/kg (rat)

(Contd. on page 7)

CA

# Safety Data Sheet

## according to HPR, Schedule 1

Printing date 01/01/2021

Reviewed on 01/01/2021

**Trade name: POLYFLEX 112B RAPID-THANE F16307 GREY**

(Contd. of page 6)

Dermal	LD50	2,000 mg/kg (rabbit)	
<b>100-41-4 ethylbenzene</b>			
Oral	LD50	3,500 mg/kg (rat)	
Dermal	LD50	17,800 mg/kg (rabbit)	
<ul style="list-style-type: none"> <li>· <b>Primary irritant effect:</b></li> <li>· <b>on the skin:</b> Irritant to skin and mucous membranes.</li> <li>· <b>on the eye:</b> No irritating effect.</li> <li>· <b>Sensitization:</b> Sensitization possible through skin contact.</li> <li>· <b>Additional toxicological information:</b> The product shows the following dangers according to internally approved calculation methods for preparations: Irritant</li> <li>· <b>Carcinogenic categories</b></li> </ul>			
· <b>IARC (International Agency for Research on Cancer)</b>			
1330-20-7	xylene		3
13463-67-7	titanium dioxide		2B
100-41-4	ethylbenzene		2B
7631-86-9	silicon dioxide, chemically prepared		3
111-42-2	2,2'-iminodiethanol		2B
1333-86-4	Carbon black		2B
14808-60-7	Quartz (SiO <sub>2</sub> )		1
· <b>NTP (National Toxicology Program)</b>			
14808-60-7	Quartz (SiO <sub>2</sub> )		K

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 8)

CA

# Safety Data Sheet

according to HPR, Schedule 1

Printing date 01/01/2021

Reviewed on 01/01/2021

Trade name: **POLYFLEX 112B RAPID-THANE F16307 GREY**

(Contd. of page 7)

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- **UN-Number**
- **DOT/TDG, ADR, IMDG, IATA**                      UN1263

- **UN proper shipping name**
- **DOT/TDG**    Paint
- **ADR**    1263 PAINT
- **IMDG, IATA**    PAINT

- **Transport hazard class(es)**
- **DOT/TDG (Transport dangerous goods):**



- **Class**    3 Flammable liquids
- **Label**    3

- **ADR, IMDG, IATA**



- **Class**    3 Flammable liquids
- **Label**    3

- **Packing group**
- **DOT/TDG, ADR, IMDG, IATA**                      III

- **Environmental hazards:**                              Not applicable.

- **Special precautions for user**                      Warning: Flammable liquids
- **Danger code (Kemler):**                              30
- **EMS Number:**    F-E,S-E
- **Stowage Category**                                      A

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**                      Not applicable.

- **Transport/Additional information:**

- **DOT/TDG**
- **Quantity limitations**                                      On passenger aircraft/rail: 60 L  
On cargo aircraft only: 220 L

- **ADR**
- **Excepted quantities (EQ)**                              Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

(Contd. on page 9)

CA



# Safety Data Sheet

according to HPR, Schedule 1

Printing date 01/01/2021

Reviewed on 01/01/2021

Trade name: **POLYFLEX 112B RAPID-THANE F16307 GREY**

(Contd. of page 8)

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul> | <p>5L<br/>Code: E1<br/>Maximum net quantity per inner packaging: 30 ml<br/>Maximum net quantity per outer packaging: 1000 ml</p> |
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>  | <p>UN 1263 PAINT, 3, III</p>   |

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

1330-20-7	xylene
100-41-4	ethylbenzene
872-50-4	N-methyl-2-pyrrolidone
1344-28-1	aluminium oxide
111-42-2	2,2'-iminodiethanol

- **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

- **Canadian substance listings:**

- **Canadian Domestic Substances List (DSL)**

1330-20-7	xylene
13463-67-7	titanium dioxide
100-41-4	ethylbenzene
110-43-0	methyl amyl ketone
7631-86-9	silicon dioxide, chemically prepared
8001-79-4	Castor oil
136210-30-5	tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate
8007-24-7	cashew nut shell oil
108-65-6	2-methoxy-1-methylethyl acetate
872-50-4	N-methyl-2-pyrrolidone
1344-28-1	aluminium oxide
111-42-2	2,2'-iminodiethanol
20344-49-4	iron hydroxide oxide
12136-45-7	dipotassium oxide
104810-47-1	poly(oxy-1,2-ethanediyl), $\alpha$ -[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]- $\omega$ -[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropoxy]-
104810-48-2	poly(oxy-1,2-ethanediyl), $\alpha$ -[3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]-1-oxopropyl]- $\omega$ -hydroxy-
1314-23-4	zirconium oxide

(Contd. on page 10)

**Safety Data Sheet**  
according to HPR, Schedule 1

Printing date 01/01/2021

Reviewed on 01/01/2021

**Trade name: POLYFLEX 112B RAPID-THANE F16307 GREY**

(Contd. of page 9)

1305-78-8	calcium oxide
1333-86-4	Carbon black
8052-41-3	Stoddard solvent
7447-41-8	lithium chloride
14808-60-7	Quartz (SiO <sub>2</sub> )
123-86-4	n-butyl acetate
34590-94-8	Dipropylene glycol monomethyl ether
57-55-6	Propylene glycol
78-83-1	butanol
70657-70-4	2-methoxypropyl acetate

· **Canadian Ingredient Disclosure list (limit 0.1%)**

100-41-4	ethylbenzene
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· **Canadian Ingredient Disclosure list (limit 1%)**

540-88-5	tert-butyl acetate
110-43-0	methyl amyl ketone
7631-86-9	silicon dioxide, chemically prepared
8001-79-4	Castor oil

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



· **Signal word** Danger

· **Hazard-determining components of labeling:**

xylene  
titanium dioxide  
ethylbenzene  
tetraethyl-N,N'-(methylenedicyclohexane-4,1-diyl)bis-DL-aspartate

· **Hazard statements**

H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H360 May damage fertility or the unborn child.  
H373 May cause damage to the hearing 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.  
P103 Read label before use.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.  
P242 Use non-sparking tools.  
P243 Take actions to prevent static discharges.

(Contd. on page 11)

## Safety Data Sheet according to HPR, Schedule 1

Printing date 01/01/2021

Reviewed on 01/01/2021

**Trade name: POLYFLEX 112B RAPID-THANE F16307 GREY**

(Contd. of page 10)

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see on this label).
P314	Get medical advice/attention if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P370+P378	In case of fire: Use for extinction: CO <sub>2</sub> , powder or water spray.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Product safety department
- **Contact:** HS REG.DEPART.REG.SS
- **Date of the latest revision of the safety data sheet** 01/01/2021 / -
- **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative