

## Safety Data Sheet

According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

**1.1. Product identifier**UFI: **GX0H-F0KM-Q00E-CP5U**  
Product name: **VSF+ COMP. A****1.2. Relevant identified uses of the substance or mixture and uses advised against**Intended use: **Thermal insulation composed for anchoring and fixings of components A (Resin)**

Identified Uses	Industrial	Professional	Consumer
Thermal insulation composed for anchoring and fixings of components A (Resin)	-	✓	-

**1.3. Details of the supplier of the safety data sheet**Name: **Vorpa Srl**  
Full address: **Via San Leo,5**  
District and Country: **47838 Riccione - RIMINI**  
Tel. **+39 - 0541 607111**  
Fax **+39 - 0541 699015**e-mail address of the competent person  
responsible for the Safety Data Sheet**vorpa@vorpa.com****1.4. Emergency telephone number**For urgent inquiries refer to: **Tel. +39 - 0541 607111 (orario ufficio)**

### SECTION 2. Hazards identification

**2.1. Classification of the substance or mixture**

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Skin sensitization, category 1 H317 May cause an allergic skin reaction.

**2.2. Label elements**

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Warning

Hazard statements:

**H317** May cause an allergic skin reaction.

Precautionary statements:

**P280** Wear protective gloves.  
**P261** Avoid breathing vapours.  
**P333+P313** If skin irritation or rash occurs: Get medical advice / attention.  
**P362+P364** Take off contaminated clothing and wash it before reuse.  
**P501** Dispose of the product / container in accordance with the legislation in force concerning waste treatment

**Contains:** ethylene dimethacrylate  
hydroxypropyl  
Tetramethylene dimethacrylate  
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

## SECTION 3. Composition/information on ingredients

### 3.1. Substances

Information not relevant

### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
<b>Tetramethylene dimethacrylate</b>		
INDEX -	$13,5 \leq x < 15$	Skin Sens. 1B H317
EC 218-218-1		
CAS 2082-81-7		
REACH Reg. 01-2119967414-30		
<b>Vinyltoluene</b>		
INDEX -	$5 \leq x < 6$	Flam. Liq. 3 H226, Acute Tox. 4 H332, Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Chronic 3 H412 STA Inhalation mists/powders: 1,5 mg/l
EC 246-562-2		



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CAS 25013-15-4

REACH Reg. 01-21196222074-50-XXXX

### ethylene dimethacrylate

INDEX 607-114-00-5

$4,5 \leq x < 5$

STOT SE 3 H335, Skin Sens. 1 H317, Classification note according to Annex VI to the CLP Regulation: D  
STOT SE 3 H335:  $\geq 10\%$

EC 202-617-2

CAS 97-90-5

REACH Reg. 01-2119965172-38-XXXX

### hydroxypropyl

INDEX -

$2 \leq x < 2,5$

Eye Irrit. 2 H319, Skin Sens. 1 H317

EC 248-666-3

CAS 27813-02-1

REACH Reg. 01-2119490226-37-XXXX

### Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

INDEX -

$0,45 \leq x < 0,5$

Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, Skin Sens. 1 H317, Aquatic Chronic 3 H412  
LD50 Oral: 619 mg/kg

EC 911-490-9

CAS -

REACH Reg. 01-2119979579-10-XXXX

### 1,1'-(p-tolimino)dipropan-2-ol

INDEX -

$0,45 \leq x < 0,5$

Acute Tox. 2 H300, Eye Irrit. 2 H319, Aquatic Chronic 3 H412  
LD50 Oral: 27,5 mg/kg

EC 254-075-1

CAS 38668-48-3

REACH Reg. 01-2119980937-17-XXXX

### Diisobutirato di 1-isopropil-2,2-dimetiltrimetilene

INDEX -

$0,45 \leq x < 0,5$

Repr. 2 H361d, Aquatic Chronic 3 H412

EC 229-934-9

CAS 6846-50-0

REACH Reg. 01-2119451093-47-XXXX

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

**EYES:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

**SKIN:** Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

**INHALATION:** Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

**INGESTION:** Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

It can cause an allergic skin reaction.



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

Symptomatic treatment

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

#### SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

#### UNSUITABLE EXTINGUISHING EQUIPMENT

Full jet of water

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

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

### 5.3. Advice for firefighters

#### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures

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

If there are no contraindications, spray powder with water to prevent the formation of dust.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product and place it in containers for recovery or disposal. If there are no contraindications, use jets of water to eliminate product residues.

Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

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

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

#### ethylene dimethacrylate

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,139	mg/l
Normal value in marine water	0,0139	mg/l
Normal value for fresh water sediment	1,6	mg/kg
Normal value for marine water sediment	0,16	mg/kg
Normal value of STP microorganisms	57	mg/l

#### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,83 mg/kg bw/d				
Inhalation				1,45 mg/m3				2,45 mg/m3
Skin				0,83 mg/kg bw/d				1,3 mg/kg bw/d

#### hydroxypropyl

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,904	mg/l
Normal value in marine water	0,904	mg/l
Normal value for fresh water sediment	6,28	mg/kg
Normal value for marine water sediment	6,28	mg/kg
Normal value for water, intermittent release	0,972	mg/l
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,727	mg/kg

#### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				2,5 mg/kg bw/d				



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Inhalation	8,8 mg/m <sup>3</sup>	14,7 mg/m <sup>3</sup>
Skin	2,5 mg/kg bw/d	4,2 mg/kg bw/d

### Diisobutirrato di 1-isopropil-2,2-dimetiltrimetilene

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,014	mg/l
Normal value in marine water	0,0014	mg/l
Normal value for fresh water sediment	5,29	mg/kg
Normal value for marine water sediment	0,529	mg/kg
Normal value of STP microorganisms	3	mg/l

### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				5 mg/kg bw/d				
Inhalation				4,35 mg/m <sup>3</sup>				17,62 mg/m <sup>3</sup>
Skin				5 mg/kg bw/d				5 mg/kg bw/d

### 1,1'-(p-tolimino)dipropan-2-ol

Predicted no-effect concentration - PNEC

Normal value in fresh water	17	ug/L
Normal value in marine water	1,7	ug/l
Normal value for fresh water sediment	163	ug/kg
Normal value for marine water sediment	16,3	ug/kg
Normal value of STP microorganisms	199,5	mg/l

### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								2,47 mg/m <sup>3</sup>
Skin								0,7 mg/kg bw/d

### Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-

Predicted no-effect concentration - PNEC

Normal value in fresh water	0,048	mg/l
Normal value in marine water	0,0048	mg/l
Normal value for fresh water sediment	1,2	mg/kg
Normal value for marine water sediment	0,12	mg/kg
Normal value of STP microorganisms	10	mg/l
Normal value for the terrestrial compartment	0,21	mg/kg

### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,83 mg/kg bw/d				
Inhalation				2,9 mg/m <sup>3</sup>				9,8 mg/m <sup>3</sup>
Skin				0,83 mg/kg bw/d				1,4 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified ; LOW = low hazard ; MED =



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medium hazard ; HIGH = high hazard.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

Used gloves throw

Recommended material: NBR (Caucciù di Nitrile)

Penetration time:> 480 min

Thickness of the glove material:> 0.2 mm

DIN/EN RULES: EN 374

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

None required, unless indicated otherwise in the chemical risk assessment.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	Pasty solid	
Colour	beige	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	not applicable	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	not applicable	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	not available	
Kinematic viscosity	not available	



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Solubility	insoluble in water
Partition coefficient: n-octanol/water	not available
Vapour pressure	not available
Density and/or relative density	1,72 g/cm <sup>3</sup>
Relative vapour density	not available
Particle characteristics	not available

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Information not available

#### 9.2.2. Other safety characteristics

Information not available

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

### 10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

### 10.5. Incompatible materials

Information not available

### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

## SECTION 11. Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information





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Information not available

### Information on likely routes of exposure

Information not available

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

### Interactive effects

Information not available

### ACUTE TOXICITY

ATE (Inhalation - mists / powders) of the mixture: > 5 mg/l  
ATE (Oral) of the mixture: >2000 mg/kg  
ATE (Dermal) of the mixture: Not classified (no significant component)

#### Vinytoluene

LC50 (Inhalation vapours): 16,891 mg/l/4h  
STA (Inhalation mists/powders): 1,5 mg/l  
(figure used for calculation of the acute toxicity estimate of the mixture)

#### ethylene dimethacrylate

LD50 (Dermal): 2000 mg/kg  
LD50 (Oral): 3300 mg/kg

#### hydroxypropyl

LD50 (Dermal): > 5000 mg/kg  
LD50 (Oral): > 2000 mg/kg  
LC50 (Inhalation vapours): 20 mg/l/4h

#### Diisobutirrato di 1-isopropil-2,2-dimetiltrimetilene

LD50 (Oral): 2000 mg/kg

#### 1,1'-(p-tolimino)dipropan-2-ol

LD50 (Dermal): 2000 mg/kg  
LD50 (Oral): 27,5 mg/kg

#### Reaction mass of 2,2'-[[4-methylphenyl]imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-



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LD50 (Dermal):

2000 mg/kg

LD50 (Oral):

619 mg/kg rat

### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

### RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

**ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class

**11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

**SECTION 12. Ecological information****12.1. Toxicity**

ethylene dimethacrylate	
LC50 - for Fish	15,95 mg/l/96h
EC50 - for Crustacea	44,9 mg/l/48h
EC50 - for Algae / Aquatic Plants	17,3 mg/l/72h
hydroxypropyl	
EC50 - for Crustacea	> 143 mg/l/48h
EC50 - for Algae / Aquatic Plants	> 97,2 mg/l/72h
Vinyltoluene	
LC50 - for Fish	5,2 mg/l/96h
EC50 - for Crustacea	1,3 mg/l/48h
Chronic NOEC for Fish	0,398 mg/l
Chronic NOEC for Algae / Aquatic Plants	0,25 mg/l
Diisobutirrato di 1-isopropil-2,2-dimetiltrimetilene	
EC50 - for Crustacea	1,46 mg/l/48h
EC50 - for Algae / Aquatic Plants	7,49 mg/l/72h
1,1'-(p-tolimino)dipropan-2-ol	
LC50 - for Fish	17 mg/l/96h
EC50 - for Crustacea	28,8 mg/l/48h
EC50 - for Algae / Aquatic Plants	245 mg/l/72h
Reaction mass of 2,2'-[(4-methylphenyl)imino]bisethanol and Ethanol, 2-[[2-(2-hydroxyethoxy)ethyl](4-methylphenyl)amino]-	
LC50 - for Fish	100 mg/l/96h
EC50 - for Crustacea	48 mg/l/48h
EC50 - for Algae / Aquatic Plants	100 mg/l/72h

**12.2. Persistence and degradability**

2082-81-7 Tetramethylene dimethacrylate OECD 310 84 % 28 days



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25013-15-4 Vinyltoluenel OECD 310 36,7 % 28 days

97-90-5 Ethylene dimethacrylate OECD 301D 71 % 28 days

27813-02-1 Methacrylic acid, monoester with propane-1,2-diol OECD 301C 81% 28 days

130-15-4 1,4-naphthoquinone 39 % 5 days

### 12.3. Bioaccumulative potential

2082-81-7 Tetramethylene dimethacrylate Log Pow 3.1

25013-15-4 Vinyltoluene Log Pow 3.35

97-90-5 Ethylene dimethacrylate Log Pow 2.4

27813-02-1 Methacrylic acid, monoester with propane-1,2-diol Log Pow 0.97

6846-50-0 1-isopropyl-2,2-dimethyltrimethylendiisobutyrate Log Pow 4.91

- Reaction mass of 2,2' - [(4-methylphenyl)imino]bisethanol and ethanol 2 - [[2- (2-hydroxyethoxy)ethyl](4-methylphenyl)amino] Log Pow 2.17

38668-48-3 1,1'-(p-tolylimono)dipropan-2-ol Log Pow 2,1

130-15-4 1,4-naphthoquinone Log Pow 1.77

### 12.4. Mobility in soil

Information not available

### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

### 12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

### 12.7. Other adverse effects

Information not available

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

#### CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

#### European product waste code

080409 Production waste, formulation, supply and use of coatings (paintings, paints and glass glazes), stickers, sealing and inks for printing; production, formulation, supply and use of stickers and sealing (including waterproofing products); stickers and sealed sealing, containing organic solvents or other dangerous substances; dangerous refusal

#### European waste code

080409 Production waste, formulation, supply and use of coatings (paintings, paints and glass glazes), stickers, sealing and inks for printing; production, formulation, supply and use of stickers and sealing (including waterproofing products); stickers and sealed sealing, containing organic solvents or other dangerous substances; dangerous refusal

#### European Code Refusal contaminated packaging

150110 packaging waste; Absorbents, rags, filter materials and protective clothing (not specified otherwise); packaging (including urban packaging waste subject to separate collection); packaging containing residues of dangerous substances or contaminated by these substances; dangerous refusal



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### SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number or ID number

not applicable

#### 14.2. UN proper shipping name

not applicable

#### 14.3. Transport hazard class(es)

not applicable

#### 14.4. Packing group

not applicable

#### 14.5. Environmental hazards

not applicable

#### 14.6. Special precautions for user

not applicable

#### 14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

### SECTION 15. Regulatory information



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

Seveso Category - Directive 2012/18/EU: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 40

Contained substance

Point 75

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

## SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

**Flam. Liq. 3** Flammable liquid, category 3  
**Repr. 2** Reproductive toxicity, category 2



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<b>Acute Tox. 2</b>	Acute toxicity, category 2
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Asp. Tox. 1</b>	Aspiration hazard, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>Skin Sens. 1B</b>	Skin sensitization, category 1B
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H226</b>	Flammable liquid and vapour.
<b>H361d</b>	Suspected of damaging the unborn child.
<b>H300</b>	Fatal if swallowed.
<b>H332</b>	Harmful if inhaled.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H412</b>	Harmful to aquatic life with long lasting effects.

### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

### GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament



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5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
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  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
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  18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
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  22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. - 10th Edition
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  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.