



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: XW40-T00Q-G00Y-CT8U
Product name: ANCORANTE CHIMICO TYTAN PROFESSIONAL EVII 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: UNIFLEX SRL
Full address: Via del Teroldego, 6
District and Country: 38016- MEZZOCORONA (TN)
Località e Stato: 38016- MEZZOCORONA (TN)
Tel: +39 049 767 336 - Fax: +39 049 884 332
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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 methacrylate
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)
Tetramethylene dimethacrylate		
INDEX -	$13,5 \leq x < 15$	Skin Sens. 1B H317

EC 218-218-1

CAS 2082-81-7

REACH Reg. 01-2119967414-30

Vinyltoluene

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

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 methacrylate

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-tolylimino)dipropyl-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

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

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.

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			Chronic systemic	Effects on workers			
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,83 mg/kg bw/d				
Inhalation				1,45 mg/m3				2,45 mg/m3

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Skin 0,83 mg/kg bw/d 1,3 mg/kg bw/d

hydroxypropyl methacrylate

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			Chronic systemic	Effects on workers			Chronic systemic
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	
Oral				2,5 mg/kg bw/d				
Inhalation				8,8 mg/m3				14,7 mg/m3
Skin				2,5 mg/kg bw/d				4,2 mg/kg bw/d

1-isopropyl-2,2-dimethyltrimethylene diisobutylate

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			Chronic systemic	Effects on workers			Chronic systemic
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	
Oral				5 mg/kg bw/d				
Inhalation				4,35 mg/m3				17,62 mg/m3
Skin				5 mg/kg bw/d				5 mg/kg bw/d

1,1'-(p-tolylimino)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			Chronic systemic	Effects on workers			Chronic systemic
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	
Inhalation								2,47 mg/m3
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]-

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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			Chronic systemic	Effects on workers			
	Acute local	Acute systemic	Chronic local		Acute local	Acute systemic	Chronic local	Chronic systemic
	Oral				0,83 mg/kg bw/d			
	Inhalation				2,9 mg/m3			
	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 = 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	
Solubility	insoluble in water	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	1,72 g/cm ³	
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

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)

Vinyltoluene

LC50 (Inhalation vapours):	11 mg/l/4h
STA (Inhalation mists/powders):	1,5 mg/l (figure used for calculation of the acute toxicity estimate of the mixture)
LD50 (Dermal):	4585 mg/kg

ethylene dimethacrylate

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

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hydroxypropyl methacrylate

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

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

LD50 (Oral):	2000 mg/kg
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1,1'-(p-tolylimino)dipropyl-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]-

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 methacrylate		
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

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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

1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

EC50 - for Crustacea	1,46 mg/l/48h
EC50 - for Algae / Aquatic Plants	7,49 mg/l/72h

1,1'-(p-tolylimino)dipropyl-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

25013-15-4 Vinyltoluene 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)dipropyl-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 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

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

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

<u>Product</u>	
Point	40

<u>Contained substance</u>	
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
Acute Tox. 2	Acute toxicity, category 2
Acute Tox. 4	Acute toxicity, category 4
Asp. Tox. 1	Aspiration hazard, category 1
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3

Skin Sens. 1	Skin sensitization, category 1
Skin Sens. 1B	Skin sensitization, category 1B
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic toxicity, category 3
H226	Flammable liquid and vapour.
H361d	Suspected of damaging the unborn child.
H300	Fatal if swallowed.
H332	Harmful if inhaled.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H412	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
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
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)

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14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2019/521 (XII Atp. CLP)
16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- 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.