

SAFETY DATA SHEET

According to Regulation (EU) No 2020/878

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : RUSTYCO REACTOR
Product code : RUS-001
UFI : MF00-40N9-N00R-0H59

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

Application : SU21 Consumer product. PC24 Lubricants, greases, release agents.

1.3. Details of the supplier of the safety data sheet

Supplier : Rustyco
Postbus 22
9640 AA Veendam, The Netherlands
Telephone : +31 598 631 333
E-mail : info@rustyco.com
Website : www.rustyco.com

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

NL - Telephone : +31 598 631 333 (During office hours only)

EMERGENCY TELEPHONE NUMBER (for DOCTORS only):

National Poisons Information Service +44 344 892 0111 (24/7)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP classification : Aerosols, category 3. Acute toxicity, category 4. Eye irritation, category 2. Skin sensitization, category 1.
(1272/2008/EC)
Human health hazards : Harmful if swallowed. Causes serious eye irritation. May cause an allergic skin reaction.
Physical/chemical hazards : Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C.
Environmental hazards : Not classified as dangerous according to statutory EC-Directives.
Other information : Caution: Do not breathe spray. Use only in well-ventilated areas.

2.2. Label elements

Label elements ((EU) 1272/2008):

Hazard pictograms :



Signal word : Warning

H- and P-phrases : H229 Pressurised container: May burst if heated.
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

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P251	Do not pierce or burn, even after use.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 hands	Wear protective gloves and eye protection.
eyes	
P261 spray	Avoid breathing spray.
P270	Do not eat, drink or smoke when using this product.
P302+P352	IF ON SKIN: Wash with plenty of water/soap.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P305+P351	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
+P338	If eye irritation persists: 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.
P501	Dispose of contents/container to an official chemical waste depot.

Labelling of packagings where the contents do not exceed 125 ml and it is technically impossible to list all phrases:

Hazard pictograms :



Signal word : Warning

H- and P-phrases	:	H302	Harmful if swallowed.
		H229	Pressurised container: May burst if heated.
		H317	May cause an allergic skin reaction.
		P101	If medical advice is needed, have product container or label at hand.
		P102	Keep out of reach of children.
		P251	Do not pierce or burn, even after use.
		P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
		P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P261 spray	Avoid breathing spray.
		P270	Do not eat, drink or smoke when using this product.
		P280 hands	Wear protective gloves and eye protection.
		eyes	
		P302+P352	IF ON SKIN: Wash with plenty of water/soap.
		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 contents/container to an official chemical waste depot.

Additional labelling (for all packaging sizes)

- : Contains: Sodium mercaptoacetate ; 2-Methylisothiazol-3(2H)-one .
- : 0,2 % by mass of the contents are flammable.

Other information : According to Regulation (EC) No 1272/2008, the packaging of this product shall carry a tactile warning of danger.

2.3. Other hazards

Other information : The classification of this product is based on the non-aerosolised form of the mixture (on basis of section 1.1.3.7. of Regulation (EC) No 1272/2008). Does not contain PBT or vPvB substances in concentrations higher than 0,1%. Human health: This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605. Environment: This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

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SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration (w/w) (%)	CAS nr.	EC number	Remark	REACH nr.
Sodium mercaptoacetate	10 - < 25	367-51-1	206-696-4		01-2119968564-24
Isotridecanol, branched, ethoxylated	1 - < 3	69011-36-5	-----		
Oxydipropanol	0,1 - < 1	25265-71-8	246-770-3	MAC	
2-Methylisothiazol-3(2H)-one	0,0015 - < 0,1	2682-20-4	220-239-6		

Substance name	Hazard Class	H-phrases	Pictograms	
Sodium mercaptoacetate	Met. Corr. 1; Acute Tox. 3; Acute Tox. 4; Skin Sens. 1; Aquatic Chronic 3	H290; H301; H312; H317; H412	GHS05; GHS06; GHS07	H290 : C >= 46 %
Isotridecanol, branched, ethoxylated	Eye Dam. 1; Aquatic Chronic 3	H318; H412	GHS05	
Oxydipropanol	-----	-----	-----	
2-Methylisothiazol-3(2H)-one	Acute Tox. 3; Acute Tox. 3; Skin Corr. 1B; Skin Sens. 1A; Eye Dam. 1; Acute Tox. 2; Aquatic Acute 1; Aquatic Chronic 1	H301; H311; H314; H317; H318; H330; H400; H410; EUH071	GHS05; GHS06; GHS07; GHS09	M (acute) = 10 M (chronic) = 1 H317 : C >= 0,0015 %

Occupational exposure limit(s), if relevant, are listed in section 8.

Reference is made to chapter 16 for full text of each relevant H phrase.

SECTION 4 FIRST-AID MEASURES

4.1. Description of first aid measures

First aid measures

- Inhalation : Move victim into fresh air. Consult a doctor if victim feels unwell.
- Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up. Consult a doctor if irritation occurs.
- Eye contact : Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor.
- Ingestion : Aerosol or mist: Ingestion is unlikely to occur.

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

Effects and symptoms

- Inhalation : May cause irritation to respiratory airways and coughing.
- Skin contact : May cause redness and irritation, sensitisation. May produce an allergic reaction. May cause dry skin.
- Eye contact : Irritant. May cause redness and pain.
- Ingestion : Aerosol or mist: Ingestion is unlikely to occur. May cause a feeling of sickness, malaise, shortness of breath and lack of breathe.

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

Note to physicians : None known.

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SECTION 5 FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

- Suitable : Carbondioxide (CO₂). Foam. Dry chemical. Water fog.
- Not suitable : Water jet. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

- Special exposure hazards : Aerosol may explode from internal pressure build-up when exposed to temperatures exceeding 50 °C. Do not expose emergency personnel to overheated aerosol containers. Water may be used to cool container and prevent explosion of the aerosol.
- Hazardous thermal decomposition and combustion products : Carbon monoxide may be evolved if incomplete combustion occurs.

5.3. Advice for firefighters

- Special protective equipment for fire-fighters : Fight a fire where aerosols are involved from a protected position. Use adequate respiratory equipment in case of insufficient ventilation.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Avoid contact with spilled or released material. Do not breathe vapours and/or spray. Keep away from sources of ignition — No smoking.

6.2. Environmental precautions

- Environmental precautions : Avoid release of product into sewers, surface water and/or ground water.
- Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Collect spilled material in containers. Collect aerosol cans in an approved container. Do not pierce aerosols. Wash away remainder with plenty of water and soap.

6.4. Reference to other sections

- Reference to other sections : See also section 8.

SECTION 7 HANDLING AND STORAGE

7.1. Precautions for safe handling

- Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas. Important: Pressurized container; protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Keep away from sources of ignition — No smoking. Do not breathe spray. Avoid contact with skin and eyes. Avoid splashing. Wear protective clothing.

7.2. Conditions for safe storage, including any incompatibilities

- Storage : Keep frost-free, in a cool (< 35°), dry and well-ventilated place. Protect from sunlight and keep away from heat.

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Recommended packaging : Not applicable.

7.3. Specific end use(s)

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits : Occupational exposure limits have not been established for this product. Derived no-effect levels (DNEL) have not been established for this product. Predicted no-effect concentrations (PNEC) have not been established for this product.

Workplace exposure limits (mg/m³):

Chemical name	Country	TWA 8 hour (mg/m ³)	STEL 15 min (mg/m ³)	Comments	Source
Oxydipropanol		67	-		MAC: DE

Derived no-effect level (DNEL) for workers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Sodium mercaptoacetate	Inhalation Dermal			0.004 mg/kg bw/day	0.987 mg/m ³ 0.163 mg/kg bw/day
Oxydipropanol	Dermal Inhalation				84 mg/kg bw/day 238 mg/m ³
2-Methylisothiazol-3(2H)-one	Inhalation	0,043 mg/m ³		0,021 mg/m ³	

Derived no-effect level (DNEL) for consumers:

Chemical name	Route of exposure	DNEL, short-term		DNEL, long-term	
		Local effect	Systemic effect	Local effect	Systemic effect
Sodium mercaptoacetate	Dermal Inhalation				0.0193 mg/kg bw/day 0.174 mg/m ³
Oxydipropanol	Oral Dermal Inhalation				0.1 mg/kg bw/day 51 mg/kg bw/day 70 mg/m ³
2-Methylisothiazol-3(2H)-one	Oral Inhalation Oral	0,043 mg/m ³	0,053 mg/kg bw	0,021 mg/m ³	24 mg/kg bw/day 0,027 mg/kg bw/day

Predicted no-effect concentration (PNEC):

Chemical name	Route of exposure	Fresh water	Marine water	
Sodium mercaptoacetate	Water Sediment	0.011 mg/l 0.039 mg/kg	0.001 mg/l 0.004 mg/kg	
	Intermittent water STP Soil			0,380 mg/l 10 mg/l 0.002 mg/kg
Oxydipropanol	Water Sediment Intermittent water STP Soil Oral	0,1 mg/l 0,238 mg/kg	0,01 mg/l 0,0238 mg/kg	1 mg/l 1000 mg/l 0,0253 mg/kg 313 mg/kg food

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8.2. Exposure controls

Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with chemicals.

Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.



Body protection : Wear appropriate protective clothing, overalls or suit, and similar boots in accordance with EN 365/367 resp. 345. Suitable material: nitril. Indication of permeation breakthrough time: 6 hours.

Respiratory protection : Take care of sufficient ventilation.

Hand protection : Wear appropriate safety gloves in accordance with EN 374. Suitable material: nitril. $\pm 0,5$ mm. Indication of permeation breakthrough time: 6 hours.

Eye protection : Wear appropriate safety glasses with side shields, in accordance with EN 166, when there is danger of possible eye contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	: Aerosol.	
Colour	: Colourless.	
Odour	: Perfumed.	
Odour threshold	: Not known.	
pH	: 6,75	
Solubility in water	:	Active ingredients soluble. Propellant(s) not soluble.
Partition coefficient (n-octanol/water)	: Not applicable.	Not measured. Not relevant for mixtures.
Flash point	: Not applicable.	Not measurable.
Flammability (solid, gas)	: Not flammable.	Contains < 1% flammable components and has a heat of combustion < 20 kJ/g.
Auto ignition temperature	: Not applicable.	Aerosol container explodes before reaching the auto-ignition point.
Boiling point/boiling range	: Not known.	Not measurable.
Melting point/melting range	: < 0 °C	
Explosive properties	:	Pressurised container: May burst if heated.
Explosion limits (% in air)	: Not known.	
Oxidising properties	: Not applicable.	Does not contain oxidizing substances.
Decomposition temperature	: Not applicable.	Aerosol explodes before reaching the decomposition temperature.
Viscosity (20°C)	: Not known.	Not measurable.
Viscosity (40°C)	: Not known.	Not measurable.
Vapour pressure (20°C)	: 7 Bar	
Relative vapour density	: Not relevant.	
Relative density (20°C)	: 1 g/ml	The solvent content of this product is less than 1%.
Particle characteristics	: Not applicable.	Liquid.

9.2. Other information

Other information : Not relevant.

SECTION 10 STABILITY AND REACTIVITY

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10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : Keep away from sources of ignition and sources of heat. See section 7.

10.5. Incompatible materials

Materials to avoid : Not applicable.

10.6. Hazardous decomposition products

Hazardous decomposition products : Not known.

SECTION 11 TOXICOLOGICAL INFORMATION

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

No toxicological research has been carried out on this product.

Inhalation

- Acute toxicity : Calculated LC50: > 7,532 mg/l. Ingredients of unknown toxicity: < 1 %. ATE: 22,04 mg/l. Low toxicity. Not classified - based on available data, the classification criteria are not met. No specific effects and/or symptoms are known.
- Corrosion/irritation : May cause irritation to respiratory airways and coughing. Not classified - based on available data, the classification criteria are not met.
- Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available data, the classification criteria are not met.
- Carcinogenicity : Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Skin contact

- Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 5000 mg/kg.bw. Low toxicity. Not classified - based on available data, the classification criteria are not met.
- Corrosion/irritation : Not classified - based on available data, the classification criteria are not met.
- Sensitisation : May cause sensitisation by skin contact. May produce an allergic reaction.
- Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Eye contact

- Corrosion/irritation : Irritant.

Ingestion

- Acute toxicity : Aerosol or mist: Ingestion is unlikely to occur. May cause signs of intoxication and reduced consciousness after exposure to high concentrations. May cause a feeling of sickness, malaise, shortness of breath and lack of breathe. Calculated LD50: > 401 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: 500 mg/kg.bw.
- Aspiration : Danger of aspiration is not expected. Contains a substance/substances with an aspiration hazard. Not classified - based on available data, the classification criteria are not met.

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Corrosion/irritation : Aerosol or mist: Ingestion is unlikely to occur. May cause a feeling of sickness, vomiting and diarrhoea.

Carcinogenicity : Aerosol or mist: Ingestion is unlikely to occur. Does not contain carcinogenic substances. Not classified - based on available data, the classification criteria are not met.

Mutagenicity : Aerosol or mist: Ingestion is unlikely to occur. Does not contain mutagenic substances. Not classified - based on available data, the classification criteria are not met.

Reprotoxicity : Aerosol or mist: Ingestion is unlikely to occur. Development: Not expected to be reprotoxic. Development: Not classified - Based on available data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not classified - based on available data, the classification criteria are not met.

Toxicological information:

Chemical name	Property		Method	Test animal
Sodium mercaptoacetate	LD50 (oral)	> 50 mg/kg bw	OECD 402	Rat
	LD50 (dermal)	> 1000 mg/kg bw	OECD 402	Rat
	LD50 (oral) - estimate	100 mg/kg bw	-----	-----
	LC50 (inhalation) - estimate	> 2729 mg/m3	Read across	Rat
	Skin irritation	Irritant	OECD 404	Rabbit
	Eye irritation	Slightly irritant	OECD 405	Rabbit
	Mutagenicity	Negative	OECD 471	-----
	Skin sensitisation	Sensitizing.	OECD 429	Mouse
	NOAEL (oral)	20 mg/kg bw/d	OECD 408	Rat
	NOAEL (dermal)	> 180 mg/kg bw/d	OECD 411	Rat
	NOAEL (developmental toxicity, dermal)	100 mg/kg bw/d	OECD 414	Rat
	NOEL (carcinogenicity, dermal)	Not carcinogenic	-----	Mouse
	NOAEL (fertility, dermal)	360 mg/kg bw/d	-----	Mouse
Isotridecanol, branched, ethoxylated	NOAEL (development) - estimate	> 50 mg/kg.d	Read across	Rat
	NOAEL (fertility) - estimate	> 250 mg/kg.d	Read across	Rat
	LD50 (oral)	> 2000 mg/kg bw	-----	-----
	Skin irritation	Non-irritant	-----	Rabbit
	Eye irritation	Highly irritant	-----	Rabbit
	Genotoxicity - in vitro	Not genotoxic	-----	-----
	Mutagenicity	Negative	OECD 471	Salmonella typhimurium
	Genotoxicity - in vivo	Not genotoxic	-----	-----
	Skin sensitisation - estimate	Not sensitizing	Read across	Guinea pig
	LD50 (dermal) - estimate	> 2000 mg/kg bw	Read across	Rabbit
	NOEL (carcinogenicity) - estimate	Not carcinogenic	Read across	-----
	NOAEL (oral) - estimate	50 mg/kg bw/d	Read across	Rat
	LC50 (inhalation) - estimate	> 5000 mg/m3		
2-Methylisothiazol-3(2H)-one	Skin irritation	Corrosive.	Patch test	-----
	Genotoxicity - in vivo	Not genotoxic		Rat
	NOAEL (oral)	19 mg/kg bw/d	-----	Rat
	Outdoor cleaners (excludes stone, concrete and similar surfaces)	Non-irritant		Guinea pig

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Eye irritation - estimate	Corrosive.		-----
Mutagenicity	Negative	OECD 471	Salmonella typhimurium
Skin sensitisation	620 ug/cm2	OECD 429	Mouse
NOAEL (development, oral)	100 mg/kg bw/d	-----	Rat
LD50 (dermal)	> 484,5 mg/kg bw	-----	Rat
LD50 (oral)	120 mg/kg bw		Rat
LC50 (inhalation)	0,34 mg/m3	OECD 403	Rat

11.2. Information on other hazards

Endocrine disrupting properties : This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.
Other information : Not applicable.

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Calculated LC50 (fish): 27 mg/l. Calculated EC50 (waterflea): 20 mg/l. Contains 0 % of components with unknown hazards to the aquatic environment. Not classified - based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Persistence – degradability : No specific information known. The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) 648/2004 on detergents.

12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

Mobility : Not applicable

12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment : Does not contain PBT or vPvB substances in concentrations higher than 0,1%.

12.6. Endocrine disrupting properties

Endocrine disrupting properties : This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

12.7. Other adverse effects

Other adverse effects : Not applicable.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product residues : Recyclable metal container. Do not puncture or burn even after use. Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat product residues and non-empty pack as hazardous waste.

Additional warning : Residues may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums.

European waste catalogue : Dispose hazardous waste in accordance with Directive 91/689/EEC under acknowledgement of a waste code according to Commission Decision 2000/532/EC to an official chemical waste depot.

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Local legislation : Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

SECTION 14 TRANSPORT INFORMATION

14.1. UN number or ID number

UN nr. : UN 1950

14.2. UN proper shipping name

Transport name : AEROSOLS
Transport name (IMDG, : AEROSOLS
IATA)

14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

ADR/RID/ADN (road/railway/inland waterways)

Class : 2
Classification code : 5A
Packaging group : -
Danger label : 2,2
Tunnel restriction : E
code



Other information : Not intended for carriage by tank-vessels on inland waterways.

IMDG (sea)

Class : 2.2
Packaging group : -
EmS (fire / spill) : F - D / S - U
Marine pollutant : No

IATA (air)

Class : 2.2
ERG code : 2L
Packaging group : -

14.6. Special precautions for user

Other information : Country specific variations may apply. It is possible that a "Limited Quantity" exemption applies to the transport of this product.

14.7. Maritime transport in bulk according to IMO instruments

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO) instruments. Packaged liquids are not considered bulk.

SECTION 15 REGULATORY INFORMATION

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

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Community regulations : Regulation (EU) No 2020/878 (REACH), Regulation (EC) No 1272/2008 (CLP), 75/324/EEC (aerosols) and other regulations. Directive 2008/98/EC (waste).

15.2. Chemical safety assessment

Chemical safety assessment : Not applicable.

SECTION 16 OTHER INFORMATION

16.1. Other information

The information in this safety data sheet is compiled in compliance with Regulation (EU) No 2020/878 dated 18 June 2020 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ADR	: European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	: Acute Toxicity Estimate
CLP	: Classification, Labeling & Packaging
CMR	: Carcinogenic, Mutagenic or toxic for Reproduction
EEC	: European Economic Community
GHS	: Globally Harmonized System of Classification and Labelling of Chemicals
IATA	: International Air Transport Association
IBC code	: International Bulk Chemical Code
IMDG	: International Maritime Dangerous Goods Code
LD50/LC50	: Lethal Dose/Concentration for 50% of a population
MAC	: Maximum Allowable Concentration
MARPOL	: International Convention for the Prevention of Pollution From Ships
NO(A)EL	: No Observed (Adverse) Effect Level
OECD	: Organisation for Economic Co-operation and Development
PBT	: Persistent, Bioaccumulative and Toxic
PC	: Chemical product category
PT	: Product type
REACH	: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	: Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	: Sewage Treatment Plant
SU	: Sector of Use
TWA/STEL	: Time-Weighted Average/Short Term Exposure Limit
UN	: United Nations
UFI	: Unique formula identifier
VOC	: Volatile Organic Compounds
vPvB	: Very Persistent and Very Bioaccumulative

Key data used to compile the Safety Data Sheet are from, but not limited to, one or more sources of information e.g. toxicological data from material suppliers, CONCAWE, IFRA, CESIO, Regulation EG 1272/2008, etc.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008:

Aer. 3	: Expert judgement.
Acute Tox. 4	: Calculation method.
Eye Irrit. 2	: Calculation method.
Skin Sens. 1/1A/1B	: Calculation method.

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Full text of hazard classes mentioned in section 3:

Acute Tox. 3	: Acute toxicity, category 3.
Acute Tox. 4	: Acute toxicity, category 4.
Skin Corr. 1A/B/C	: Skin corrosive, category 1A/B/C.
Eye Dam. 1	: Serious eye damage, category 1.
Skin Sens. 1/1A/1B	: Skin sensitization, category 1/1A/1B.
Aquatic Chronic 1	: Hazardous to the aquatic environment — Chronic category 1.
Aquatic Chronic 3	: Hazardous to the aquatic environment — Chronic category 3.
Aquatic Acute 1	: Hazardous to the aquatic environment — Acute category 1.
Met. Corr. 1	: Corrosive to metals, category 1.

Full text of H-phrases mentioned in section 3:

H290	May be corrosive to metals.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H330	Fatal if inhaled.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Advice on any training appropriate for workers: none.

Number format : ", " used as decimal separator.

End of safety data sheet.