Safety Data Sheet
SANEG REDUCTOR CLP 220
Safety Data Sheet dated 6/10/2025 version 4

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

1.1. Product identifier

Mixture identification:

Trade name: SANEG REDUCTOR CLP 220
Trade code: SNI1013
Registration Number N/A

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

Recommended use: Industrial gear oil

Uses advised against: N.A.

1.3. Details of the supplier of the safety data sheet

Company: SANEG Oil Italy SpA
Via Bitritto km 7,800
70124 Bari - Italia
Orario
LUN – VEN: 8.30 – 16.00
email: msds@saneg-oil.it
T. +39 080 8500821

SANEG Oil Italy SpA
Via Francesco Benaglia, 13
00153 Roma - Italia
Orario
LUN – VEN: 8.30 – 16.00
email: msds@saneg-oil.it
T. +39 06 83971600

1.4. Emergency telephone number

Azienda ospedaliera "Antonio Cardarelli", III Servizio di anestesia e rianimazione, via Antonio Cardarelli 9, Napoli 081-5453333

Azienda ospedaliera universitaria Careggi, U.O. Tossicologia medica, via Largo Brambilla 3, Firenze; 055-7947819

Centro nazionale d'informazione tossicologica, IRCCS Fondazione Salvatore Maugeri Clinica del lavoro e della riabilitazione, via Salvatore Maugeri 10, Pavia; 0382-24444

Azienda ospedaliera Niguarda Ca' Grande, piazza Ospedale Maggiore 3, Milano; 02-66101029

Azienda ospedaliera "Papa Giovanni XXIII", tossicologia clinica, Dipartimento di farmacia clinica e farmacologia, piazza OMS 1, Bergamo; 800883300

Policlinico "Umberto I", PRGM tossicologia d'urgenza, viale del Policlinico 155, Roma; 06-49978000

Policlinico "Agostino Gemelli", Servizio di tossicologia clinica, largo Agostino Gemelli 8, Roma; 06-3054343

Azienda ospedaliera universitaria riuniti, viale Luigi Pinto 1, Foggia; 800183459

Ospedale pediatrico Bambino Gesu', Dipartimento emergenza e accettazione DEA, piazza Sant'Onofrio 4, Roma; 06-68593726

Azienda ospedaliera universitaria integrata (AOUI) di Verona sede di Borgo Trento, Piazzale Aristide Stefani, 1 - 37126 Verona». 8000118558

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Aquatic Chronic 3 Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:
No other hazards

2.2. Label elements

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with applicable regulations.

Contains

POLYSULFIDES, DI-TERT-BU May produce an allergic reaction.

REACTION PRODUCTS OF 4-METHYL-2- May produce an allergic reaction.

PENTANOL AND DIPHOSPHORUS PENTASULFIDE PROPOXYLATED, ESTERIFIED WITH DIPHOSPHORUS PENTAOXIDE, AND SALTED BY AMINES, C-12-14 TERT-ALKYL

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%.

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: SANEG REDUCTOR CLP 220

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
15-25 %	DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	CAS:64742-65-0 EC:265-169-7	Asp. Tox. 1, H304, DECLL(*)	01-2119471299-27
< 1%	POLYSULFIDES, DI-TERT-BU	CAS:68937-96-2 EC:273-103-3	Skin Sens. 1B, H317 Aquatic Chronic 3, H412 Specific Concentration Limits: C ≥ 46%: Skin Sens. 1B H317	01-2119540515-43
< 1%	REACTION PRODUCTS OF 4-METHYL-2-PENTANOL AND DIPHOSPHORUS PENTASULFIDE PROPOXYLATED, ESTERIFIED WITH DIPHOSPHORUS PENTAOXIDE, AND SALTED BY AMINES, C-12-14 TERT-ALKYL	EC:931-384-6	Acute Tox. 4, H302 Aquatic Chronic 2, H411 Skin Sens. 1B, H317 Eye Irrit. 2, H319 Specific Concentration Limits: C ≥ 9.39%: Skin Sens. 1B H317 C ≥ 50.01%: Eye Irrit. 2 H319	01-2119493620-38

(*)DECLL Substance classified in accordance with Note L, Annex VI of EC Regulation (EC) 1272/2008.

The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346 "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Remove contaminated clothing and wash thoroughly with soap and water.

In case of eyes contact:

Immediately wash/irrigate with plenty of water for several minutes, holding eyelids open. Seek medical attention if pain and redness persist.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

In case of exposure to high concentrations of vapors and/or mists, remove the person from the contaminated air, transport them to a well-ventilated place, keep them warm and at rest. Seek medical attention if necessary

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

N.A.

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

N.A.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Small fires: carbon dioxide, dust, foam, sand or earth. Large fires: foam or water spray. Other extinguishing media (according to regulations). The intervention must be carried out only by adequately trained personnel.

Carbon dioxide (CO_2).

Extinguishing media which must not be used for safety reasons:

Do not use direct jets of water. These can cause splashes, and spread the fire. Avoid using foam and water simultaneously on the same surface as water destroys the foam.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Avoid direct skin contact and contact with eyes by wearing personal protective clothing. Small spills: Normal anti-static work clothing is generally appropriate. Large spills: total protective clothing resistant to chemical agents and made of anti-static material. If necessary, heat-resistant and thermally insulated. Anti-static and non-slip safety shoes or boots, chemical resistant, if necessary, heat resistant and thermally insulated. A self-contained breathing apparatus may be used depending on the extent of the spill and the foreseeable level of exposure.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapors and mists.

Keep away from heat/sparks/open flames/hot surfaces. Use and store in a well-ventilated place. During transfer and mixing operations, ensure correct earthing of the equipment and avoid the accumulation of electrical charges. Empty containers may contain combustible product residues. Do not drill, cut, grind, weld, braze, burn or incinerate empty containers or drums that have not been reclaimed. Before accessing the storage tanks and starting any type of intervention in a space

confined (e.g. tunnels), carry out adequate remediation, check the atmosphere and verify the oxygen content, the degree of flammability, and the presence of sulfur compounds. Avoid contact with skin. Do not breathe fumes/mists/vapours. Do not swallow. Not smoking. Do not dry your hands with dirty or greasy rags. Do not reuse clothing that is still contaminated.

Keep away from food and drinks

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated rooms.

Keep the product in the original containers, store them in environments and conditions that ensure the control and containment of any leaks. Store the containers in cool places, away from any heat source and direct exposure to sunlight. Avoid the accumulation of electrostatic charges. Keep containers tightly closed and in a vertical position.

Storage temperature: Room

7.3. Specific end use(s)

Recommendation(s)

Information on the specific end uses of this product may be provided in a technical data sheet/attachment

Industrial sector specific solutions:

Information on the specific end uses of this product may be provided in a technical data sheet/attachment

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Occupational Exposure Limit
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC CAS: 64742-65-0	EU	Long Term: 5 mg/m3; Short Term: 10 mg/m3

Predicted No Effect Concentration (PNEC) values

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC CAS: 64742-65-0	PNEC LIMIT: 9.33 mg/kg Remark: Oral
POLYSULFIDES, DI-TERT-BU CAS: 68937-96-2	Exposure Route: Soil (agricultural); PNEC LIMIT: 0.018 mg/kg
	Exposure Route: Marine water; PNEC LIMIT: 0.024 ppm
	Exposure Route: Fresh Water; PNEC LIMIT: 0.24 ppm
	Exposure Route: Food chain; PNEC LIMIT: 6.66 mg/kg Remark: ORAL
	Exposure Route: Freshwater sediments; PNEC LIMIT: 0.94 mg/kg
	Exposure Route: Microorganisms in sewage treatments; PNEC LIMIT: 4.51 mg/kg
	Exposure Route: Marine water sediments; PNEC LIMIT: 0.094 mg/kg

Derived No Effect Level (DNEL) values

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC CAS: 64742-65-0	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Industry: 5.4 mg/m3; Worker Professional: 5.4 mg/m3
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Consumer: 1.2 mg/m3
POLYSULFIDES, DI-TERT-BU CAS: 68937-96-2	Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Consumer: 0.167 mg/kg Remark: TOX. REPEATED EXPOSURE
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Industry: 4.67 mg/kg; Worker Professional: 4.67 mg/kg; Consumer: 1.67 mg/kg Remark: TOX. REPEATED EXPOSURE
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Industry: 3.29 mg/m3; Worker Professional: 3.29 mg/m3; Consumer: 0.58 mg/kg Remark: TOX. REPEATED EXPOSURE

8.2. Exposure controls

Ensure replacement ventilation or other ventilation systems to maintain concentrations of substances conveyed by air below their respective occupational exposure limits. All activities involving chemicals must be assessed for their health risks in order to ensure that the exposure is adequately monitored. Wear protective clothing. Personal protective equipment must conform to the appropriate standards, suitable for specific use and maintained in good condition.

Eye protection:

Safety Glasses.

Protection for skin:

Use Nitrile or neoprene gloves. Long-sleeved garments are recommended. Wear protection against chemical agents when contact with the material is foreseen. Use neoprene or nitrile boots if necessary to avoid contaminating the shoes. Wash contaminated clothes before reuse.

Protection for hands:

Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile gloves. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a

short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.

Respiratory protection:

Use in ventilated area. Use respirator with a combination organic vapor and high efficiency filter cartridge just if recommended exposure limit is exceeded. Use self-contained breathing apparatus to enter narrow spaces, in poorly ventilated areas and to clean areas where large quantities of product have been spilled.

Hygienic and Technical measures

Wash thoroughly after handling this product. Do not eat, drink or smoke when using this product.

Appropriate engineering controls:

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Liquid

Color: brown

Odour: characteristic

pH: N.A.

Kinematic viscosity: > 20,5 mm2/sec (40 °C)

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: 225 °C (437 °F) (ASTM D92 (Cleveland Open Cup))

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 895.00 kg/m3 (ASTM D4052 @ 15°C)

Solubility in water: Insoluble

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Nanoforms dispersion stability

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

Kinematic Viscosity at 100°C: N.A.

Kinematic Viscosity at 40°C (mm2/s): 220.00 mm2/s (ASTM D445)

Flammability: N.A.

Volatile Organic compounds - VOCs = N.A.

Particle characteristics:

Particle size: N.A.

9.2. Other information

Miscibility: N.A.

Conductivity: N.A.

Evaporation rate: N.A.

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

Toxicological Information of the Preparation

a) acute toxicity Not classified

	No data available for the product
b) skin corrosion/irritation	Not classified
	No data available for the product
c) serious eye damage/irritation	Not classified
	No data available for the product
d) respiratory or skin sensitisation	Not classified
	No data available for the product
e) germ cell mutagenicity	Not classified
	No data available for the product
f) carcinogenicity	Not classified
	No data available for the product
g) reproductive toxicity	Not classified
	No data available for the product
h) STOT-single exposure	Not classified
	No data available for the product
i) STOT-repeated exposure	Not classified
	No data available for the product
j) aspiration hazard	Not classified
	No data available for the product

Toxicological information on main components of the mixture:

DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	a) acute toxicity	LD50 Skin Rabbit > 5000 mg/kg	
		LC50 Inhalation Vapour Rat > 5.53 mg/l 4h	
		LD50 Oral Rat > 5 ml/kg	
POLYSULFIDES, DI-TERT-BU	d) respiratory or skin sensitisation	Skin Sensitization	Skin Sensitizer (Measured cause sensitization by skir contact. Remarks: Catego
REACTION PRODUCTS OF 4-METHYL-2-PENTANOL AND DIPHOSPHORUS PENTASULFIDE PROPOXYLATED, ESTERIFIED WITH DIPHOSPHORUS PENTAOXIDE, AND SALTED BY AMINES, C-12-14 TERT-ALKYL	d) respiratory or skin sensitisation	Skin Sensitization	Skin Sensitizer (Measured Category 1B
	i) STOT-repeated exposure	No Observed Adverse Effect Level 150 mg/kg	

Sub-acute and Chronic Toxicity

Component	CMR Properties	Effect dose	Value	Exposure time	Species	Method	Evaluation	Remark
POLYSULFIDES, DI-TERT-BU	Sub-Acute oral	100.000		28.000	Rat	407 Repeated Dose 28-day Oral Toxicity.	Sub-acute NOAEL Oral	

11.2 Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 3(H412)

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	CAS: 64742-65-0 - EINECS: 265-169-7	b) Aquatic chronic toxicity : NOELR Daphnia Daphnia Magna = 10 mg/L - exposure-21 days. Based on data for a similar substance.
		b) Aquatic chronic toxicity : NOELR Algae Pseudokirchneriella subcapitata > 100 mg/L 72h - Based on data for a similar substance.
		a) Aquatic acute toxicity : LL50 Fish Pimephales promelas > 100 mg/L 96h - Based on data for a similar substance.
		b) Aquatic chronic toxicity : NOELR Fish Oncorhynchus mykiss = 1000 mg/L - Exposure-14 days. QSAR result.
		a) Aquatic acute toxicity : EL50 Daphnia Daphnia Magna > 10000 mg/L 48h - Based on data for a similar substance.
POLYSULFIDES, DI-TERT-BU	CAS: 68937-96-2 - EINECS: 273-103-3	a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna 63 mg/L 48h
		a) Aquatic acute toxicity : EC50 Algae > 100 mg/L 72h
		a) Aquatic acute toxicity : EC50 > 10000 mg/L Sludge
REACTION PRODUCTS OF 4-METHYL-2-PENTANOL AND DIPHOSPHORUS PENTASULFIDE PROPOXYLATED, ESTERIFIED WITH DIPHOSPHORUS PENTAOXIDE, AND SALTED BY AMINES, C-12-14 TERT-ALKYL	EINECS: 931-384-6	a) Aquatic acute toxicity : LC50 Fish TROTA ARCOBALENO = 24 mg/L 96h
		a) Aquatic acute toxicity : LC50 Fish PIMEPHALES PROMELAS = 8.5 mg/L 96h
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna 91.4 mg/L 48h
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna 0.66 mg/L - 21d
		a) Aquatic acute toxicity : NOEC Daphnia Daphnia magna 0.12 mg/L
		a) Aquatic acute toxicity : EC50 Algae Selenastrum capricomutum 6.4 mg/L 96h
		a) Aquatic acute toxicity : NOEC Algae Selenastrum capricomutum 6.4 mg/L 96h
		a) Aquatic acute toxicity : EC50 Sludge 2.433 mg/L 0.1d

12.2. Persistence and degradability

Component	Persitence/Degradability:	Test	Duration	Value	Notes
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	Non-readily biodegradable				
POLYSULFIDES, DI-TERT-BU	Non-readily biodegradable	CO2 production	28d	13.000	OECD TG 301 B
REACTION PRODUCTS OF 4-METHYL-2-PENTANOL AND DIPHOSPHORUS PENTASULFIDE PROPOXYLATED, ESTERIFIED WITH DIPHOSPHORUS PENTAOXIDE, AND SALTED BY AMINES, C-12-14 TERT-ALKYL	Non-readily biodegradable	Dissolved organic carbon	28d	3.600	Related muds
	Non-readily biodegradable	CO2 production	28d	7.400	OECD TG 301 B

12.3. Bioaccumulative potential

Component	Test	Value	Notes
POLYSULFIDES, DI-TERT-BU	Log Kow	6.000	Measured

12.4. Mobility in soil

Component	Mobility in soil
DISTILLATES (PETROLEUM), SOLVENT-DEWAXED HEAVY PARAFFINIC	Mobile

12.5. Results of PBT and vPvB assessment

The components of this preparation do not meet the criteria for a classification as PBT or vPvB

12.6 Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7 Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

This product must not be discharged into sewers, tunnels, watercourses and rivers. Dispose of used products (e.g emulsions) and empty containers by handing them over to authorized companies, complying with the provisions contained in the regulations in force.

The user has the final responsibility to assign the most appropriate code to the waste, based on the actual use of the product, evaluating any contamination or alterations suffered during the generation process of the waste itself.

SECTION 14: Transport information

14.1. UN number or ID number

N/A

14.2. UN proper shipping name

N/A ADR-Shipping Name:

IATA-Technical name: N/A

IMDG-Technical name: N/A

14.3. Transport hazard class(es)

ADR-Class: N/A

IATA-Class: N/A

IMDG-Class: N/A

14.4. Packing group

ADR-Packing Group: N/A

IATA-Packing group: N/A

IMDG-Packing group: N/A

14.5. Environmental hazards

Toxic Ingredients Qty: 0.00

High Toxicity Ingredients Qty: 0.00

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: N/A

14.6. Special precautions for user

Road and Rail (ADR-RID) :

ADR-Label: N/A

ADR - Hazard identification number: N/A

ADR-Special Provisions: N/A

ADR-Transport category (Tunnel restriction code): N/A

Air (IATA) :

IATA-Passenger Aircraft: N/A

IATA-Cargo Aircraft: N/A

IATA-Label: N/A

IATA-Subsidiary hazards: N/A

IATA-Erg: N/A

IATA-Special Provisioning: N/A

Sea (IMDG) :

IMDG-Stowage Code: N/A

IMDG-Stowage Note: N/A

IMDG-Subsidiary hazards: N/A

IMDG-Special Provisioning: N/A

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 CLP)
Regulation (EU) n. 2023/707
Regulation (EU) n. 2023/1434 (ATP 19 CLP)
Regulation (EU) n. 2023/1435 (ATP 20 CLP)
Regulation (EU) n. 2024/197 (ATP 21 CLP)
Regulation (EU) n. 2020/878
Provisions related to directive EU 2012/18 (Seveso III):

N.A.

German Water Hazard Class.

Class 3: extremely hazardous.

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restrictions related to the substances contained:

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Code	Description
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
4.1/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
4.1/C3	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

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

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: Keep away from heat

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low

N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION