



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 30026

EDC 95-11

Date of the previous version: 2016-04-22

Revision Date: 2016-09-21

Version 2

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name	EDC 95-11
REACH Registration Name	Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics.
REACH registration No	01-2119827000-58
Trade name	-
Substance/mixture	Substance

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

Identified uses	Manufacture of substances, Distribution of substance, Formulation & (re)packing of substances and mixtures, Use in Oil and Gas field drilling and production operations, Laboratory activities, Water treatment chemical.
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1.3. Details of the supplier of the safety data sheet

Supplier	TOTAL FLUIDES 24, cours Michelet. 92800 PUTEAUX. FRANCE Tel: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 82 88
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For further information, please contact:

Contact Point	Service QSE : Tel : +33 (0)1 41 35 33 64 / Fax : +33 (0)1 41 35 33 50 Emergency number 24h/24h: +33 (0)1 41 35 65 00
E-mail Address	rmfs.fds@total.com

1.4. Emergency telephone number

Emergency telephone: +44 1235 239670
 France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59
 In France : - PARIS : Hôpital Fernand Widal 200, rue du Faubourg Saint-Denis 75475 Paris Cédex 10 , Tel : 01.40.05.48.48. -
 MARSEILLE : Hopital Salvator, 249 bd Ste Marguerite 13274 Marseille cedex 5, Tel : 04.91.75.25.25. - LYON : Hopital Edouard
 Herriot, 5 place d'Arsonvol, 69437 Lyon cedex 3, Tel : 04.72.11.69.11. - NANCY : Hopital central, 29 Av du Mal De Lattre de
 Tassigny, 54000 Nancy, Tel : 03.83.32.36.36 ou le SAMU : Tel (15)

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture**REGULATION (EC) No 1272/2008**

Version EU



SDS # : 30026

EDC 95-11

Revision Date: 2016-09-21

Version 2

For the full text of the H-Statements mentioned in this Section, see Section 2.2.

Classification

Aspiration toxicity - Category 1 - (H304)

2.2. Label elements

Labelled according to Not classified/No labelling required

Contains Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics

EC-No 934-956-3

**Signal Word**

DANGER

Hazard Statements

H304 - May be fatal if swallowed and enters airways

Precautionary Statements

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor

P331 - Do NOT induce vomiting

2.3. Other hazards

Physical-Chemical Properties Contaminated surfaces will be extremely slippery.

Properties Affecting Health If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey during 48 hours).

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance**Chemical nature**

A complex and variable combination of paraffinic and cyclic hydrocarbons having a carbon number range predominantly of C15 to C20 and boiling in the range of approximately 240°C to 335°C.

Chemical Name	EC-No	REACH registration No	CAS-No	Weight %	Classification (Reg. 1272/2008)
Hydrocarbons, C15-C20, n-alkanes, isoalkanes,	934-956-3	01-2119827000-58	^	100	Asp. Tox. 1 (H304)



SDS # : 30026

EDC 95-11

Revision Date: 2016-09-21

Version 2

cyclics, < 0.03% aromatics					
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Additional information

The EC substance definition and related classification & labelling has been developed in the framework of the Regulation (EC) No 1907/2006 (REACH). For information about the related CAS number see section 15 of this MSDS.
Total aromatic content : < 0.03 %.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4: FIRST AID MEASURES

4.1. Description of first-aid measures

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.
Skin contact	Remove contaminated clothing and shoes. Wash off with soap and water.
Inhalation	In case of exposure to intense concentrations of vapours, fumes or spray, transport the person away from the contaminated zone, keep warm and allow to rest.
Ingestion	Do not ingest. If swallowed then seek immediate medical assistance. Risk of product entering the lungs on vomiting after ingestion. In this case, the casualty should be sent immediately to hospital.
Protection of First-aiders	Use personal protective equipment.

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

Eye contact	Burning feeling and temporary redness.
Skin contact	Prolonged or repeated contact may dry skin and cause irritation.
Inhalation	Vapors inhaled in strong concentration have a narcotic effect on the central nervous system. The inhalation of vapours or aerosols may be irritating for the respiratory tract and for mucous membranes.
Ingestion	If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey during 48 hours). Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	Treat symptomatically.
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Section 5: FIRE-FIGHTING MEASURES



SDS # : 30026

EDC 95-11

Revision Date: 2016-09-21

Version 2

5.1. Extinguishing media**Suitable Extinguishing Media** Foam. Carbon dioxide (CO₂). Dry powder.**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.5.2. Special hazards arising from the substance or mixture**Special Hazard** Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.5.3. Advice for fire-fighters**Special protective equipment for fire-fighters** Wear self-contained breathing apparatus and protective suit. In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.**Other information** Cool containers / tanks with water spray.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.**Section 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**General Information** Ensure adequate ventilation, especially in confined areas. Use personal protective equipment.ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
Evacuate non-essential personnel.

Do not touch or walk through spilled material.

6.2. Environmental precautions**General Information** Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills. The product should not be allowed to enter drains, water courses or the soil. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional Ecological Information.6.3. Methods and material for containment and cleaning up**Methods for cleaning up** Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Following product recovery, flush area with water.6.4. Reference to other sections**Personal Protective Equipment** See Section 8 for more detail.**Waste treatment** See section 13.



SDS # : 30026

EDC 95-11

Revision Date: 2016-09-21

Version 2

Other information Remove all sources of ignition.**Section 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**Advice on safe handling**

For personal protection see section 8. Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas. Do not breathe vapors or spray mist.

Technical measures

Ensure adequate ventilation.
Do not spray at high pressure (> 3 bar) .

Prevention of fire and explosion

Handle away from any source of ignition (open flame and sparks) and heat (hot manifolds or casings). Do not smoke.
Take precautionary measures against static discharges.

Hygiene measures

Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke.
Regular cleaning of equipment, work area and clothing is recommended. Do not dry hands with rags that have been contaminated with product. Do not use abrasives, solvents or fuels.
Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities**Technical measures/Storage conditions**

Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts.
Storage installations should be designed with adequate bunds so as to prevent ground or water pollution in case of leaks or spills.
Keep in a bunded area. Keep in a dry, cool and well-ventilated place.
Keep away from open flames, hot surfaces and sources of ignition. Ground/bond containers, tanks and transfer/receiving equipment. Store at room temperature.
Keep containers tightly closed and properly labelled.

Materials to Avoid

Strong acids. Oxidizing agents.

Packaging material

Keep only in the original container or in a suitable container for this kind of product. steel .
Stainless steel.

7.3. Specific end uses**Specific use(s)**

See exposure scenarios.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION8.1. Control parameters**Exposure limits**

Mineral oil mist:
USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined)

SDS # : 30026

EDC 95-11

Revision Date: 2016-09-21

Version 2

Legend See section 16

Derived No Effect Level (DNEL) According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified

Predicted No Effect Concentration (PNEC) PNEC is not meaningful for petroleum substances
Aquatic PNECs for hydrocarbon blocks are derived using HC5 method and target lipid model using representative structures

8.2. Exposure controls

Occupational Exposure Controls

Engineering Measures When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.
Apply technical measures to comply with the occupational exposure limits.

Personal Protective Equipment

General Information

Protective engineering solutions should be implemented and in use before personal protective equipment is considered.
These recommendations apply to the product as supplied.
If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.

Respiratory protection

For rescue and maintenance work in storage tanks use self-contained breathing apparatus. In an emergency or for exceptional short-lasting jobs in an atmosphere polluted by the product, it is necessary to wear protective respiratory equipment.
The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

Eye Protection

If splashes are likely to occur, wear: Safety glasses with side-shields.

Skin and body protection

Wear suitable protective clothing. Protective shoes or boots.

Hand Protection

Impervious gloves, aliphatic hydrocarbon resistant.

Repeated or prolonged exposure			
Glove material	Glove thickness	Break through time	Remarks
Nitrile rubber	> 0.55 mm	> 480 min	EN 374
Fluorinated rubber Viton (R)	(*)	> 480 min	EN 374 (*) any thickness
PVA	(*)	> 480 min	EN 374 (*) any thickness

In case of contact through splashing:			
Glove material	Glove thickness	Break through time	Remarks
Nitrile rubber	> 0.38 mm	> 60 min	EN 374
Neoprene	> 0.75 mm	> 60 min	EN 374

Environmental exposure controls

General Information Do not allow material to contaminate ground water system.

SDS # : 30026

EDC 95-11

Revision Date: 2016-09-21

Version 2

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Color		colorless	
Physical State @20°C		liquid	
Odor		Hydrocarbon-like	
Odor Threshold		No information available	
Property	Values	Remarks	Method
pH		Not applicable	
Melting point/range		No information available	
Boiling point/boiling range	250 - 335 °C 482 - 635 °F		ISO 3405 ISO 3405
Flash point	> 115 °C > 239 °F		ISO 2719 ISO 2719
Evaporation rate		No information available	
Flammability Limits in Air			
upper	6 %		
Lower	1 %		
Vapor Pressure	< 0.003 hPa	@ 20 °C	
Vapor density		No information available	
Relative density		No information available	
Density	815 kg/m ³	@ 15 °C	ISO 12185
Water solubility		Not applicable	
Solubility in other solvents		Soluble in many common organic solvents	
logPow		Not applicable	
Autoignition temperature	> 230 °C > 446 °F		ASTM E 659 ASTM E 659
Decomposition temperature		No information available	
Viscosity, kinematic	< 20.5 mm ² /s	@ 40 °C	ISO 3104
Explosive properties	Not considered explosive based on chemical structure and oxygen balance considerations		
Oxidizing Properties	This product is not considered oxidising based on chemical structure considerations		
Possibility of hazardous reactions	None under normal processing		

9.2. Other information

Surface tension	0.0246 N/m	@ 25 °C	EN 14370
Freezing Point		No information available	

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

General Information	None under normal processing.
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10.2. Chemical stability



SDS # : 30026

EDC 95-11

Revision Date: 2016-09-21

Version 2

Stability Stable under recommended storage conditions.10.3. Possibility of hazardous reactions**Hazardous Reactions** None under normal processing.10.4. Conditions to Avoid**Conditions to Avoid** Heat, flames and sparks. Take precautionary measures against static discharges.10.5. Incompatible Materials**Materials to Avoid** Strong acids. Oxidizing agents.10.6. Hazardous Decomposition Products**Hazardous Decomposition Products** Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.**Section 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**Acute toxicity Local effects Product Information**

Skin contact	This substance does not meet the EU criteria for classification. Prolonged or repeated contact may dry skin and cause irritation.
Eye contact	This substance does not meet the EU criteria for classification. Burning feeling and temporary redness.
Inhalation	This substance does not meet the EU criteria for classification. Vapors inhaled in strong concentration have a narcotic effect on the central nervous system. The inhalation of vapours or aerosols may be irritating for the respiratory tract and for mucous membranes.
Ingestion	. If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey during 48 hours). Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	LD50 > 5000 mg/kg bw (rat - OECD 401)	LD50 (24h) > 3160mg/kg bw (rabbit - OECD 402)	LC50 (4h) > 5266 mg/m ³ (aerosol) (rat - OECD 403)

Sensitization**Sensitization** Not classified as a sensitizer.**Specific effects****Carcinogenicity** The current toxicological knowledge allows to not classify the product as a carcinogen.



SDS # : 30026

EDC 95-11

Revision Date: 2016-09-21

Version 2

Mutagenicity	The mutagenic potential of the substance has been extensively studied in a range of in-vivo and in-vitro assays.
Germ Cell Mutagenicity	Genetic toxicity : negative.
Reproductive toxicity	Studies in rats with the substance did not show any effect on reproductive performance.
Developmental Toxicity	Results of guideline developmental toxicity studies on the substance and OECD developmental toxicity screening studies showed no evidence of developmental toxicity in rats.
Repeated Dose Toxicity	
Target Organ Effects (STOT)	
Target Organ Effects (STOT)	None known.
Specific target organ systemic toxicity (single exposure)	This substance does not meet the EU criteria for classification.
Specific target organ systemic toxicity (repeated exposure)	This substance does not meet the EU criteria for classification.
Aspiration toxicity	The fluid can enter the lungs and cause damage (chemical pneumonitis, potentially fatal).
Other information	
Other adverse effects	Frequent or prolonged skin contact destroys the lipoid cutaneous layer and may cause dermatitis.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Not classified.

Acute aquatic toxicity - Product Information

Not applicable.

Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics ^	Erl50 (72h) > 10000 mg/l (Skeletonema costatum - ISO 10253)	LL50 (48h) > 3193 mg/l (Acartia tonsa - ISO 14669)	LL50 (96h) > 1028 mg/l (Scophthalmus maximus - OECD 203)	

Chronic aquatic toxicity - Product Information

Not applicable.

Chronic aquatic toxicity - Component Information

No information available.



SDS # : 30026

EDC 95-11

Revision Date: 2016-09-21

Version 2

Effects on terrestrial organisms

No information available.

12.2. Persistence and degradability**General Information**

Readily biodegradable (74 % after 28 days).

Biodegradation							
Type	Method	Sampling time	Specific effects	Values	Unit	Biodegradability	Source
	OECD 306	28 days		74	%	Readily biodegradable	

12.3. Bioaccumulative potential**Product Information**

Substance is a UVCB. Standard tests for this endpoint are not appropriate.

logPow

Not applicable

Component Information

Not applicable.

12.4. Mobility in soil**Soil**

Given its physical and chemical characteristics, the product generally shows low soil mobility.

Air

Volatilisation is dependent on Henry's Constant which is not applicable to UVCB.

Water

The product is insoluble and floats on water.

12.5. Results of PBT and vPvB assessment**PBT and vPvB assessment**

This substance is considered not to be PBT and vPvB.

12.6. Other adverse effects**General Information**

No information available.

Section 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods****Waste from Residues / Unused Products**

Dispose of as hazardous waste in compliance with local and national regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

EWC Waste Disposal No.

Waste codes should be assigned by the user based on the application for which the product was used. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.



SDS # : 30026

EDC 95-11

Revision Date: 2016-09-21

Version 2

Section 14: TRANSPORT INFORMATION

<u>ADR/RID</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>ICAO/IATA</u>	Not regulated
<u>ADN</u>	Not regulated

Section 15: REGULATORY INFORMATION

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

European Union

REACH

The EC substance definition is included in the CAS related number description for global inventory entries

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Related CAS number 64742-46-7

International Inventories The substance is listed or exempted from listing in the following inventories:

- Europe (EINECS/ELINCS/NLP)
- U.S.A. (TSCA)
- Canada (DSL/NDSL)
- Australia (AICS)
- Korea (KECL)
- China (IECSC)
- Japan (ENCS)
- Philippines (PICCS)
- New Zealand (NZIoC)
- Taiwan (TCSI)

Further information

No information available

15.2. Chemical Safety Assessment**Chemical Safety Assessment** A Chemical Safety Assessment has been carried out for this substance

Section 16: OTHER INFORMATION



SDS # : 30026

EDC 95-11

Revision Date: 2016-09-21

Version 2

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

dw = dry weight

fw = fresh water

mw = marine water

or = occasional release

Legend Section 8

TWA: Time Weight Average

STEL: Short Time Exposure Limit

PEL: Permissible exposure limit

REL: Recommended exposure limit

TLV: Threshold Limit Values

+ Sensitizer

** Hazard Designation

M: Mutagen

*

C:

R:

Skin designation

Carcinogen

Toxic to reproduction

Revision Date: 2016-09-21**Revision Note** (M)SDS sections updated: 1. 3. 7. 11. 15. 16. Exposure scenario.**Further information** Other uses than these listed under section 1.2 may have been foreseen for the substance(s) contained in the product. Please contact us if your use is not listed under section 1.2.**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.



SDS # : 30026

EDC 95-11

Revision Date: 2016-09-21

Version 2

End of the Safety Data Sheet

TFGES1IH304
Version 1.0

1. Exposure scenario

Manufacture of substances, Industrial.

Use Descriptor

Sector of use

SU3 - Industrial Manufacturing (all)
SU8 - Manufacture of bulk, large scale chemicals (including petroleum products)
SU9 - Manufacture of fine chemicals
SU10 - Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

Process Category

PROC1 - Use in closed process, no likelihood of exposure
PROC2 - Use in closed, continuous process with occasional controlled exposure
PROC3 - Use in closed batch process (synthesis or formulation)
PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises
PROC8a - Transfer of substance or mixture (charging/discharging) from/to vessels/large containers at non dedicated facilities
PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
PROC15 - Use as a laboratory reagent

Environmental Release Category

ERC1 - Manufacture of substances
ERC4 - Industrial use of processing aids in processes and products, not becoming part of articles

Processes, tasks, activities covered

Manufacture of the substance or use as a process chemical or extraction agent within closed or contained systems. Includes incidental exposures during recycling/ recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).

2. Operational conditions and risk management measures

2.1. Control of environmental exposure

Product characteristics

Not applicable.

Amounts used

Not applicable

Environment factors not influenced by risk management

Not applicable

Other operational conditions of use affecting environmental exposure

Not applicable.

Technical conditions and measures at process level to prevent release

Not applicable.

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Not applicable

Organizational measures to prevent/limit release from the site

Not applicable.

Conditions and measures related to municipal sewage treatment plant

Not applicable

Conditions and measures related to external treatment of waste for disposal

Not applicable.

Conditions and measures related to external recovery of waste

Not applicable.

2.2. Control of exposure - Workers / Consumers

Product characteristics

Physical State

liquid

Concentration of substance in product

Covers percentage substance in the product up to 100 % (unless stated differently).

Frequency and duration of use

Covers daily exposures up to 8 hours (unless stated differently)

Other operational conditions affecting exposure

Assumes a good basic standard of occupational hygiene is implemented.

2.2a. Control of worker exposure

Contributing Scenarios

Operational conditions and risk management measures.

Remarks

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity.

This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived.

Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance.

The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

2.2b. Control of consumer exposure

Product Category(ies)

Operational conditions and risk management measures.

Remarks

Not applicable.

3. Exposure estimation and references

Health

Not applicable

Environment

Not applicable.

4. Guidance for Downstream User to check compliance with the Exposure scenario

Health

Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.

Environment

Not applicable.

TFGES1AIH304

Version 1.0

1. Exposure scenario

Distribution of substance, Industrial.

Use Descriptor

Sector of use

SU3 - Industrial Manufacturing (all)

SU8 - Manufacture of bulk, large scale chemicals (including petroleum products)

SU9 - Manufacture of fine chemicals

Process Category

PROC1 - Use in closed process, no likelihood of exposure

PROC2 - Use in closed, continuous process with occasional controlled exposure

PROC3 - Use in closed batch process (synthesis or formulation)

PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises

PROC8a - Transfer of substance or mixture (charging/discharging) from/to vessels/large containers at non dedicated facilities

PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC15 - Use as a laboratory reagent

Environmental Release Category

ERC1 - Manufacture of substances

ERC2 - Formulation of mixtures

ERC3 - Formulation in materials

ERC4 - Industrial use of processing aids in processes and products, not becoming part of articles

ERC5 - Industrial use resulting in inclusion into or onto a matrix

ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)

ERC6b - Industrial use of reactive processing aids

ERC6c - Industrial use of monomers for manufacture of thermoplastics

ERC6d - Industrial use of process regulators for polymerization processes in production of resins, rubbers, polymers

ERC7 - Industrial use of substances in closed systems

Processes, tasks, activities covered

Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage, unloading distribution and associated laboratory activities.

2. Operational conditions and risk management measures

2.1. Control of environmental exposure

Product characteristics

Not applicable.

Amounts used

Not applicable

Environment factors not influenced by risk management

Not applicable

Other operational conditions of use affecting environmental exposure

Not applicable.

Technical conditions and measures at process level to prevent release

Not applicable.

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Not applicable

Organizational measures to prevent/limit release from the site

Not applicable.

Conditions and measures related to municipal sewage treatment plant

Not applicable

Conditions and measures related to external treatment of waste for disposal

Not applicable.

Conditions and measures related to external recovery of waste

Not applicable.

2.2. Control of exposure - Workers / Consumers

Product characteristics**Physical State**

liquid

Concentration of substance in product

Covers percentage substance in the product up to 100 % (unless stated differently).

Frequency and duration of use

Covers daily exposures up to 8 hours (unless stated differently)

Other operational conditions affecting exposure

Assumes a good basic standard of occupational hygiene is implemented.

2.2a. Control of worker exposure

Contributing Scenarios	Operational conditions and risk management measures.
Remarks The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.	

2.2b. Control of consumer exposure

Product Category(ies)	Operational conditions and risk management measures.
Remarks Not applicable.	

3. Exposure estimation and references

Health

Not applicable

Environment

Not applicable.

4. Guidance for Downstream User to check compliance with the Exposure scenario

Health

Available hazard data do not support the need for a DNEL to be established for other health effects.

Risk Management Measures are based on qualitative risk characterisation.

Environment

Not applicable.

TFGES2IH304
Version 1.0

1. Exposure scenario

Formulation & (re)packing of substances and mixtures, Industrial.

Use Descriptor

Sector of use

SU3 - Industrial Manufacturing (all)

SU10 - Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

Process Category

PROC1 - Use in closed process, no likelihood of exposure

PROC2 - Use in closed, continuous process with occasional controlled exposure

PROC3 - Use in closed batch process (synthesis or formulation)

PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises

PROC5 - Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)

PROC8a - Transfer of substance or mixture (charging/discharging) from/to vessels/large containers at non dedicated facilities

PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC14 - Production of mixtures or articles by tableting, compression, extrusion, pelletization

PROC15 - Use as a laboratory reagent

Environmental Release Category

ERC2 - Formulation of mixtures

Processes, tasks, activities covered

Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tableting, compression, pelletisation, extrusion, large and small scale packing, sampling, maintenance and associated laboratory activities.

2. Operational conditions and risk management measures

2.1. Control of environmental exposure

Product characteristics

Not applicable.

Amounts used

Not applicable

Environment factors not influenced by risk management

Not applicable

Other operational conditions of use affecting environmental exposure

Not applicable.

Technical conditions and measures at process level to prevent release

Not applicable.

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Not applicable

Organizational measures to prevent/limit release from the site

Not applicable.

Conditions and measures related to municipal sewage treatment plant

Not applicable

Conditions and measures related to external treatment of waste for disposal

Not applicable.

Conditions and measures related to external recovery of waste

Not applicable.

2.2. Control of exposure - Workers / Consumers

Product characteristics

Physical State

liquid

Concentration of substance in product

Covers percentage substance in the product up to 100 % (unless stated differently).

Frequency and duration of use

Covers daily exposures up to 8 hours (unless stated differently)

Other operational conditions affecting exposure

Assumes a good basic standard of occupational hygiene is implemented.

2.2a. Control of worker exposure

Contributing Scenarios

Operational conditions and risk management measures.

Remarks

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity.

This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived.

Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance.

The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

2.2b. Control of consumer exposure

Product Category(ies)

Operational conditions and risk management measures.

Remarks

Not applicable.

3. Exposure estimation and references

Health

Not applicable

Environment

Not applicable.

4. Guidance for Downstream User to check compliance with the Exposure scenario

Health

Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.

Environment

Not applicable.

TFGES5IH304
Version 1.0

1. Exposure scenario

Use in Oil and Gas field drilling and production operations, Industrial.

Use Descriptor

Sector of use

SU3 - Industrial Manufacturing (all)

Process Category

PROC1 - Use in closed process, no likelihood of exposure

PROC2 - Use in closed, continuous process with occasional controlled exposure

PROC3 - Use in closed batch process (synthesis or formulation)

PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises

PROC8a - Transfer of substance or mixture (charging/discharging) from/to vessels/large containers at non dedicated facilities

PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

Environmental Release Category

ERC4 - Industrial use of processing aids in processes and products, not becoming part of articles

Processes, tasks, activities covered

Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.

2. Operational conditions and risk management measures

2.1. Control of environmental exposure

Product characteristics

Not applicable.

Amounts used

Not applicable

Environment factors not influenced by risk management

Not applicable

Other operational conditions of use affecting environmental exposure

Not applicable.

Technical conditions and measures at process level to prevent release

Not applicable.

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Not applicable

Organizational measures to prevent/limit release from the site

Not applicable.

Conditions and measures related to municipal sewage treatment plant

Not applicable

Conditions and measures related to external treatment of waste for disposal

Not applicable.

Conditions and measures related to external recovery of waste

Not applicable.

2.2. Control of exposure - Workers / Consumers

Product characteristics

Physical State

liquid

Concentration of substance in product

Covers percentage substance in the product up to 100 % (unless stated differently).

Frequency and duration of use

Covers daily exposures up to 8 hours (unless stated differently)

Other operational conditions affecting exposure

Assumes a good basic standard of occupational hygiene is implemented.

2.2a. Control of worker exposure

Contributing Scenarios	Operational conditions and risk management measures.
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Remarks

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity.

This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived.

Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance.

The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS).

In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

2.2b. Control of consumer exposure

Product Category(ies)	Operational conditions and risk management measures.
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Remarks

Not applicable.

3. Exposure estimation and references

Health

Not applicable

Environment

Not applicable.

4. Guidance for Downstream User to check compliance with the Exposure scenario

Health

Available hazard data do not support the need for a DNEL to be established for other health effects.

Risk Management Measures are based on qualitative risk characterisation.

Environment

Not applicable.

TFGES5PH304
Version 1.0

1. Exposure scenario

Use in Oil and Gas field drilling and production operations, Professional.

Use Descriptor

Sector of use

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Process Category

PROC1 - Use in closed process, no likelihood of exposure

PROC2 - Use in closed, continuous process with occasional controlled exposure

PROC3 - Use in closed batch process (synthesis or formulation)

PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises

PROC8a - Transfer of substance or mixture (charging/discharging) from/to vessels/large containers at non dedicated facilities

PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

Environmental Release Category

ERC8d - Wide dispersive outdoor use of processing aids in open systems

Processes, tasks, activities covered

Oil field well drilling and production operations (including drilling muds and well cleaning) including material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.

2. Operational conditions and risk management measures

2.1. Control of environmental exposure

Product characteristics

Not applicable.

Amounts used

Not applicable

Environment factors not influenced by risk management

Not applicable

Other operational conditions of use affecting environmental exposure

Not applicable.

Technical conditions and measures at process level to prevent release

Not applicable.

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Not applicable

Organizational measures to prevent/limit release from the site

Not applicable.

Conditions and measures related to municipal sewage treatment plant

Not applicable

Conditions and measures related to external treatment of waste for disposal

Not applicable.

Conditions and measures related to external recovery of waste

Not applicable.

2.2. Control of exposure - Workers / Consumers

Product characteristics

Physical State

liquid

Concentration of substance in product

Covers percentage substance in the product up to 100 % (unless stated differently).

Frequency and duration of use

Covers daily exposures up to 8 hours (unless stated differently)

Other operational conditions affecting exposure

Assumes a good basic standard of occupational hygiene is implemented.

2.2a. Control of worker exposure

Contributing Scenarios	Operational conditions and risk management measures.
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Remarks

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity.

This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived.

Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance.

The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS).

In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

2.2b. Control of consumer exposure

Product Category(ies)	Operational conditions and risk management measures.
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Remarks

Not applicable.

3. Exposure estimation and references

Health

Not applicable

Environment

Not applicable.

4. Guidance for Downstream User to check compliance with the Exposure scenario

Health

Available hazard data do not support the need for a DNEL to be established for other health effects.

Risk Management Measures are based on qualitative risk characterisation.

Environment

Not applicable.

TFGES17IH304
Version 1.0

1. Exposure scenario

Use in laboratories, Industrial.

Use Descriptor

Sector of use

SU3 - Industrial Manufacturing (all)

Process Category

PROC10 - Roller application or brushing
PROC15 - Use as a laboratory reagent

Environmental Release Category

ERC2 - Formulation of mixtures
ERC4 - Industrial use of processing aids in processes and products, not becoming part of articles

Processes, tasks, activities covered

Use of the substance within laboratory settings, including material transfers and equipment cleaning.

2. Operational conditions and risk management measures

2.1. Control of environmental exposure

Product characteristics

Not applicable.

Amounts used

Not applicable

Environment factors not influenced by risk management

Not applicable

Other operational conditions of use affecting environmental exposure

Not applicable.

Technical conditions and measures at process level to prevent release

Not applicable.

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Not applicable

Organizational measures to prevent/limit release from the site

Not applicable.

Conditions and measures related to municipal sewage treatment plant

Not applicable

Conditions and measures related to external treatment of waste for disposal

Not applicable.

Conditions and measures related to external recovery of waste

Not applicable.

2.2. Control of exposure - Workers / Consumers

Product characteristics

Physical State

liquid

Concentration of substance in product

Covers percentage substance in the product up to 100 % (unless stated differently).

Frequency and duration of use

Covers daily exposures up to 8 hours (unless stated differently)

Other operational conditions affecting exposure

Assumes a good basic standard of occupational hygiene is implemented.

2.2a. Control of worker exposure	
Contributing Scenarios	Operational conditions and risk management measures.
<p>Remarks The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.</p>	

2.2b. Control of consumer exposure	
Product Category(ies)	Operational conditions and risk management measures.
<p>Remarks Not applicable.</p>	

3. Exposure estimation and references

Health

Not applicable

Environment

Not applicable.

4. Guidance for Downstream User to check compliance with the Exposure scenario

Health

Available hazard data do not support the need for a DNEL to be established for other health effects.

Risk Management Measures are based on qualitative risk characterisation.

Environment

Not applicable.

TFGES17PH304
Version 1.0

1. Exposure scenario

Use in laboratories, Professional.

Use Descriptor

Sector of use

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Process Category

PROC10 - Roller application or brushing

PROC15 - Use as a laboratory reagent

Environmental Release Category

ERC8a - Wide dispersive indoor use of processing aids in open systems

Processes, tasks, activities covered

Use of the substance within laboratory settings, including material transfers and equipment cleaning.

2. Operational conditions and risk management measures

2.1. Control of environmental exposure

Product characteristics

Not applicable.

Amounts used

Not applicable

Environment factors not influenced by risk management

Not applicable

Other operational conditions of use affecting environmental exposure

Not applicable.

Technical conditions and measures at process level to prevent release

Not applicable.

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Not applicable

Organizational measures to prevent/limit release from the site

Not applicable.

Conditions and measures related to municipal sewage treatment plant

Not applicable

Conditions and measures related to external treatment of waste for disposal

Not applicable.

Conditions and measures related to external recovery of waste

Not applicable.

2.2. Control of exposure - Workers / Consumers

Product characteristics

Physical State

liquid

Concentration of substance in product

Covers percentage substance in the product up to 100 % (unless stated differently).

Frequency and duration of use

Covers daily exposures up to 8 hours (unless stated differently)

Other operational conditions affecting exposure

Assumes a good basic standard of occupational hygiene is implemented.

2.2a. Control of worker exposure	
Contributing Scenarios	Operational conditions and risk management measures.
<p>Remarks</p> <p>The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity.</p> <p>This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived.</p> <p>Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance.</p> <p>The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.</p>	

2.2b. Control of consumer exposure	
Product Category(ies)	Operational conditions and risk management measures.
<p>Remarks</p> <p>Not applicable.</p>	

3. Exposure estimation and references
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Health

Not applicable

Environment

Not applicable.

4. Guidance for Downstream User to check compliance with the Exposure scenario

Health

Available hazard data do not support the need for a DNEL to be established for other health effects.

Risk Management Measures are based on qualitative risk characterisation.

Environment

Not applicable.

TFGES21IH304
Version 1.0

1. Exposure scenario

Water treatment chemicals, Industrial.

Use Descriptor

Sector of use

SU3 - Industrial Manufacturing (all)

Process Category

PROC1 - Use in closed process, no likelihood of exposure

PROC2 - Use in closed, continuous process with occasional controlled exposure

PROC3 - Use in closed batch process (synthesis or formulation)

PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises

PROC8a - Transfer of substance or mixture (charging/discharging) from/to vessels/large containers at non dedicated facilities

PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC13 - Treatment of articles by dipping and pouring

Environmental Release Category

ERC3 - Formulation in materials

ERC4 - Industrial use of processing aids in processes and products, not becoming part of articles

Processes, tasks, activities covered

Covers the use of the substance for the treatment of water at industrial facilities in open and closed systems.

2. Operational conditions and risk management measures

2.1. Control of environmental exposure

Product characteristics

Not applicable.

Amounts used

Not applicable

Environment factors not influenced by risk management

Not applicable

Other operational conditions of use affecting environmental exposure

Not applicable.

Technical conditions and measures at process level to prevent release

Not applicable.

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Not applicable

Organizational measures to prevent/limit release from the site

Not applicable.

Conditions and measures related to municipal sewage treatment plant

Not applicable

Conditions and measures related to external treatment of waste for disposal

Not applicable.

Conditions and measures related to external recovery of waste

Not applicable.

2.2. Control of exposure - Workers / Consumers

Product characteristics

Physical State

liquid

Concentration of substance in product

Covers percentage substance in the product up to 100 % (unless stated differently).

Frequency and duration of use

Covers daily exposures up to 8 hours (unless stated differently)

Other operational conditions affecting exposure

Assumes a good basic standard of occupational hygiene is implemented.

2.2a. Control of worker exposure	
Contributing Scenarios	Operational conditions and risk management measures.
Remarks	
<p>The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity.</p> <p>This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived.</p> <p>Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance.</p> <p>The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS).</p> <p>In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.</p>	

2.2b. Control of consumer exposure	
Product Category(ies)	Operational conditions and risk management measures.
Remarks	
Not applicable.	

3. Exposure estimation and references
Health
Not applicable
Environment
Not applicable.

4. Guidance for Downstream User to check compliance with the Exposure scenario
Health
Available hazard data do not support the need for a DNEL to be established for other health effects.
Risk Management Measures are based on qualitative risk characterisation.
Environment
Not applicable.

TFGES21PH304
Version 1.0

1. Exposure scenario

Water treatment chemicals, Professional.

Use Descriptor

Sector of use

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Process Category

PROC1 - Use in closed process, no likelihood of exposure

PROC2 - Use in closed, continuous process with occasional controlled exposure

PROC3 - Use in closed batch process (synthesis or formulation)

PROC4 - Use in batch and other process (synthesis) where opportunity for exposure arises

PROC8a - Transfer of substance or mixture (charging/discharging) from/to vessels/large containers at non dedicated facilities

PROC8b - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities

PROC13 - Treatment of articles by dipping and pouring

Environmental Release Category

ERC8f - Wide dispersive outdoor use resulting in inclusion into or a matrix

Processes, tasks, activities covered

Covers the use of the substance for the treatment of water in open and closed systems.

2. Operational conditions and risk management measures

2.1. Control of environmental exposure

Product characteristics

Not applicable.

Amounts used

Not applicable

Environment factors not influenced by risk management

Not applicable

Other operational conditions of use affecting environmental exposure

Not applicable.

Technical conditions and measures at process level to prevent release

Not applicable.

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Not applicable

Organizational measures to prevent/limit release from the site

Not applicable.

Conditions and measures related to municipal sewage treatment plant

Not applicable

Conditions and measures related to external treatment of waste for disposal

Not applicable.

Conditions and measures related to external recovery of waste

Not applicable.

2.2. Control of exposure - Workers / Consumers

Product characteristics

Physical State

liquid

Concentration of substance in product

Covers percentage substance in the product up to 100 % (unless stated differently).

Frequency and duration of use

Covers daily exposures up to 8 hours (unless stated differently)

Other operational conditions affecting exposure

Assumes a good basic standard of occupational hygiene is implemented.

2.2a. Control of worker exposure

Contributing Scenarios	Operational conditions and risk management measures.
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Remarks

The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity.

This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived.

Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance.

The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS).

In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

2.2b. Control of consumer exposure

Product Category(ies)	Operational conditions and risk management measures.
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Remarks

Not applicable.

3. Exposure estimation and references

Health

Not applicable

Environment

Not applicable.

4. Guidance for Downstream User to check compliance with the Exposure scenario

Health

Available hazard data do not support the need for a DNEL to be established for other health effects.

Risk Management Measures are based on qualitative risk characterisation.

Environment

Not applicable.

TFGES21CH304

Version 1.0

1. Exposure scenario

Water treatment chemicals, Consumer.

Use Descriptor

Sector of use

SU21 - Private households (=general public = consumers)

Product Category

PC36 - Water softeners

PC37 - Water treatment chemicals

Environmental Release Category

ERC8f - Wide dispersive outdoor use resulting in inclusion into or a matrix

Processes, tasks, activities covered

Covers the use of the substance for the treatment of water in open and closed systems.

2. Operational conditions and risk management measures

2.1. Control of environmental exposure

Product characteristics

Not applicable.

Amounts used

Not applicable

Environment factors not influenced by risk management

Not applicable

Other operational conditions of use affecting environmental exposure

Not applicable.

Technical conditions and measures at process level to prevent release

Not applicable.

Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil

Not applicable

Organizational measures to prevent/limit release from the site

Not applicable.

Conditions and measures related to municipal sewage treatment plant

Not applicable

Conditions and measures related to external treatment of waste for disposal

Not applicable.

Conditions and measures related to external recovery of waste

Not applicable.

2.2. Control of exposure - Workers / Consumers

Product characteristics

Physical State

liquid

Concentration of substance in product

Covers percentage substance in the product up to 100 % (unless stated differently).

Frequency and duration of use

Covers daily exposures up to 8 hours (unless stated differently)

Other operational conditions affecting exposure

Assumes a good basic standard of occupational hygiene is implemented.

2.2a. Control of worker exposure	
Contributing Scenarios	Operational conditions and risk management measures.
Remarks Not applicable.	

2.2b. Control of consumer exposure	
Product Category(ies)	Operational conditions and risk management measures.
Remarks The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. Since the hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.	

3. Exposure estimation and references
Health Not applicable
Environment Not applicable.

4. Guidance for Downstream User to check compliance with the Exposure scenario
Health Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
Environment Not applicable.