

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 30026

EDC 95-11

Date of the previous version: 2	016-04-22 Revision Date: 2016-09-21	Version 2
Section 1: IDENTIFICATI COMPANY/UNDERTAKIN	ON OF THE SUBSTANCE/MIXTURE AND OF THE G	
1.1. Product identifier		
Product name REACH Registration Name REACH registration No Trade name Substance/mixture	EDC 95-11 Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics. 01-2119827000-58 - 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)pack substances and mixtures, Use in Oil and Gas field drilling and production ope Laboratory activities, Water treatment chemical.	
1.3. Details of the suppl	ier 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	
For further information, please of	contact:	
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1.4. Emergency telepho Emergency telephone: +44 1235 2 Erance - OREILA (INRS) Tél : +33	39670	

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



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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

	10 333	0.			
Chemical Name	EC-No	REACH registration	CAS-No	Weight %	Classification (Reg. 1272/2008)
Hydrocarbons, C15-C20, n-alkanes, isoalkanes,	934-956-3	No 01-2119827000-58	٨	100	Asp. Tox. 1 (H304)



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cyclics, < 0.03% aromatics			
Additional information	The EC substance definition and related classification & labelli the framework of the Regulation (EC) No 1907/2006 (REACH) related CAS number see section 15 of this MSDS. Total aromatic content $: < 0.03$ %.		
For the full text of the H-Staten	nents mentioned in this Section, see Section 16.		
Section 4: FIRST AID ME	EASURES		
4.1. Description of first	-aid measures		
General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CAI EMERGENCY MEDICAL CARE.	L A DOCTOR OR	
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.	Keep eye wide open while	
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 syr	mptoms and effects, both acute and delayed		
Eye contact	Burning feeling and temporary redness.		
Skin contact	Prolonged or repeated contact may dry skin and cause irritatio	n.	
Inhalation	Vapors inhaled in strong concentration have a narcotic effect or system. The inhalation of vapours or aerosols may be irritating for the r mucous membranes.		
Ingestion	If swallowed accidentally, the product may enter the lungs due to the rapid development of very serious pulmonary lesions (m hours). Ingestion may cause gastrointestinal irritation, nausea, vomitin	edical survey during 48	
4.3. Indication of imme	diate medical attention and special treatment nee	eded, if necessary	
Notes to physician	Treat symptomatically.		
Section 5: FIRE-FIGHTIN	IG MEASURES		



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5.1. Extinguishing media		
Suitable Extinguishing Media	Foam. Carbon dioxide (CO 2). Dry powder.	
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.	
5.2. Special hazards arisin	g from the substance or mixture	
Special Hazard	Incomplete combustion and thermolysis may produce gases of varying toxicity s carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. T be highly dangerous if inhaled in confined spaces or at high concentration.	
5.3. Advice for fire-fighters	5	
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and protective suit. In case of a large confined or poorly ventilated spaces, wear full fire resistant protective clothing a self-contained breathing apparatus (SCBA) with a full face-piece operated in pospressure mode.	nd
Other information	Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in a with local regulations.	accordance

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 InformationPrevent 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.



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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
Technical measures	in well-ventilated areas. Do not breathe vapors or spray mist. 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 st	torage, 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 enduses	

7.3. Specific end uses

Specific use(s)

See exposure scenarios.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. 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)



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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 hycrocarbon 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 EN 374 Nitrile rubber > 0.55 mm > 480 min Fluorinated rubber Viton (R) (*) > 480 min EN 374 (*) any thickness EN 374 (*) any thickness PVA (*) > 480 min

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.



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Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Color Physical State @20°C Odor Odor Threshold		colorless liquid Hydrocarbon-like No information available	
<u>Property</u> pH Melting point/range	<u>Values</u>	<u>Remarks</u> Not applicable No information available	<u>Method</u>
Boiling point/boiling range Flash point	250 - 335 ℃ 482 - 635 ℉ > 115 ℃ > 239 ℉		ISO 3405 ISO 3405 ISO 2719 ISO 2719
Evaporation rate Flammability Limits in Air		No information available	
upper Lower Vapor Pressure Vapor density Relative density Density Water solubility Solubility in other solvents	6 % 1 % < 0.003 hPa 815 kg/m ³	 @ 20 °C No information available No information available @ 15 °C Not applicable Soluble in many common organic solvents Not applicable 	ISO 12185
Autoignition temperature	> 230 °C > 446 °F		ASTM E 659 ASTM E 659
Decomposition temperature Viscosity, kinematic Explosive properties Oxidizing Properties Possibility of hazardous reactions 9.2. Other information	< 20.5 mm2/s Not considered explosive	dered oxidising based on chemic	ISO 3104 d oxygen balance considerations

Surface tension0.0246 N/m@ 25 °CEN 14370Freezing PointNo information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

General Information

None under normal processing.

10.2. Chemical stability



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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.
Eye contact	Prolonged or repeated contact may dry skin and cause irritation. 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.
Ingestion	The inhalation of vapours or aerosols may be irritating for the respiratory tract and for mucous membranes. . 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).
	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,	LD50 > 5000 mg/kg bw (rat -	LD50 (24h) > 3160mg/kg bw	LC50 (4h) > 5266 mg/m ³
isoalkanes, cyclics, < 0.03% aromatics	OECD 401)	(rabbit - OECD 402)	(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.		



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Mutagenicity	The mutagenic potential of the substance has been extensively studied in a rar and in-vitro assays.	nge of in-vivo
Germ Cell Mutagenicity	Genetic toxicity : negative.	
Reproductive toxicity	Studies in rats with the substance did not show any effect on reproductive perfe	ormance.
Developmental Toxicity	Results of guideline developmental toxicity studies on the substance and OECI developmental toxicity screening studies showed no evidence of developmenta rats.	
Repeated Dose Toxicity	18.5.	
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, poten	tially fatal).
Other information		
Other adverse effects	Frequent or prolonged skin contact destroys the lipoacid cutaneous layer and r dermatitis.	nay cause

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-C2 n-alkanes, isoalkanes cyclics, < 0.03% aromat	(Skeletonema costatum -	LL50 (48h) > 3193 mg/l (Acartia tonsa - ISO 14669)	LL50 (96h) > 1028 mg/l (Scophthalamus maximus - OECD 203)	

Chronic aquatic toxicity - Product Information

Not applicable.

<u>Chronic aquatic toxicity</u> - <u>Component Information</u> No information available.



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Effects on terrestrial organisms

No information available.

12.2. Persistence and degradability

General Information

Readily biodegradable (74 % after 28 days).

Biodegradation							
Туре	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 Component Information 12.4. Mobility in soil	Not applicable Not applicable.	
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 v	rPvB assessment	
PBT and vPvB assessment	This substance is considered not to be PBT and vPvB.	
12.6. Other adverse effect	<u>is</u>	
General Information	No information available.	
Section 13: DISPOSAL CON	ISIDERATIONS	
13.1. Waste treatment me	thods	
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.	



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Section 14: TRANSPORT INFORMATION

ADR/RID_____Not regulated

ICAO/IATA Not regulated

ADN Not regulated

Section 15: REGULATORY INFORMATION

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

European Union

Related CAS number

REACH

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

64742-46-7

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

International 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



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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: Thres	hold Limit Values			
+	Sensitizer	*	Skin designation	
**	Hazard Designation	C:	Carcinogen	
M:	Mutagen	R:	Toxic to reproduction	

Revision Date: Revision Note Further information	2016-09-21 (M)SDS sections updated: 1. 3. 7. 11. 15. 16. Exposure scenario. 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.



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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 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

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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

1			
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

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

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 tabletting, 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, tabletting, 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

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2.2. Control of exposure - Workers / Consumers

Product characteristics

Physical State liquid

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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

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

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

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

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

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.

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

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.

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

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

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

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

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

TFGES21CH304 Version 1.0

1. Exposure scenario

Water treatment chemicals, Consumer.

Use Descriptor

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.
Demerke	

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