

Safety Data Sheet

according to Regulation (EU) 2015/830 Issue date: 3/29/2021 Revision date: 3/29/2021 Version: 1.0

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

1.1. Product identifier

Product form : Mixture

BTAC - BEHENTRIMONIUM CHLORIDE Product name

BTAC Product code

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

1.2.1. Relevant identified uses

Use of the substance/mixture : cosmetic, chemical products

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

INTERCHIMIE 7AC du Parc 13 rue Louis Blériot FR-77290 COMPANS

T T: +33 (0)1 64 77 76 27

qualite@interchimie.fr - www.interchimie.fr

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 2 H315 Serious eye damage/eye irritation, Category 1 H318 Specific target organ toxicity — Repeated exposure, Category 2 H373 Hazardous to the aquatic environment — Acute Hazard, Category 1 H400 Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

May cause damage to organs through prolonged or repeated exposure. Causes skin irritation. Causes serious eye damage. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)







GHS05

GHS08

GHS09

Signal word (CLP) : Danger

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides; isopropanol,isopropyl Contains

alcohol.propan-2-ol

Hazard statements (CLP) : H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H373 - May cause damage to organs through prolonged or repeated exposure.

H410 - Very toxic to aquatic life with long lasting effects.

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Precautionary statements (CLP)

: P264 - Wash hands, forearms and face thoroughly after handling.

 ${\tt P280-Wear\ protective\ gloves/protective\ clothing/eye\ protection/face\ protection/hearing}$

protection.

P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER or doctor.

P314 - Get medical advice/attention if you feel unwell.

P391 - Collect spillage.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides	(CAS-No.) 68607-24-9 (EC-No.) 271-756-9 (REACH-no) 01-2119484817-22	≥ 75	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
isopropanol,isopropyl alcohol,propan-2-ol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117-00-0 (REACH-no) 01-2119457558-25	10 – 25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell. Never give anything by mouth to an unconscious person. When in doubt or if symptoms are observed, get medical advice.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get

medical advice/attention. Do not use solvents or thinners.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Do not induce vomiting. If swallowed, seek medical advice immediately and show this

container or label.

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

Symptoms/effects : CORROSIVE.

Symptoms/effects after skin contact : Irritation (itching, redness, blistering). May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes. Causes serious eye burns.

Chronic symptoms : STOT-repeated exposure.

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

Obtain medical assistance.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Foam. Carbon dioxide. Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

Other information : Prevent fire fighting water from entering the environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact

with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Very toxic to aquatic life. Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Do not breathe

 $\ dust/fume/gas/mist/vapours/spray.\ Avoid\ contact\ with\ skin\ and\ eyes.\ Wear\ personal$

protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this

product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool. Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No smoking.

Storage temperature : 5-35 °C

Special rules on packaging : Keep only in original container.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

EN 166. Safety glasses. EN 167. EN 168

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves. EN 374. EN 420

Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Polyvinylchloride (PVC)	6 (> 480 minutes)	0.35		

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid Colour : white.

Odour : characteristic. alcohol odour.

Odour threshold : No data available pH : No data available pH solution : 5(5-7.5) % Relative evaporation rate (butylacetate=1) : No data available

Melting point : 60 °C Freezing point : Not applicable : > 82 °C Boiling point : > 70 °C Flash point Auto-ignition temperature : Not applicable : No data available Decomposition temperature Flammability (solid, gas) : Non flammable. Vapour pressure : No data available Relative vapour density at 20 °C : No data available

Relative density : 0.6

Solubility : Poorly soluble in cold water.

Partition coefficient n-octanol/water (Log Pow) : No data available
Viscosity, kinematic : Not applicable
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Direct sunlight.

10.5. Incompatible materials

Bases. Acids. Oxidizing agent.

10.6. Hazardous decomposition products

Toxic fumes. Corrosive vapours. Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified

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Acute toxicity (inhalation) : Not classified

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides (68607-24-9)		
LD50 oral rat 3190 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guid (Acute Oral Toxicity)		
LD50 dermal rabbit	> 2000 mg/kg	
LC50 Inhalation - Rat	> 72.6 g/m³	

isopropanol,isopropyl alcohol,propan-2-ol (67-63-0)	
LD50 oral rat > 5000 mg/kg	
LD50 dermal rabbit	12800 mg/kg
LD50 dermal	16.4 ml/kg 63-68
LC50 Inhalation - Rat [ppm]	> 10000 ppm OECD 403

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye damage.

Respiratory or skin sensitisation : Not classified Germ cell mutagenicity : Not classified Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

isopropanol,isopropyl alcohol,propan-2-ol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides (68607-24-9)		
NOAEL (oral, rat, 90 days)	10 mg/kg bodyweight Animal: rat, Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral)), Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents), Guideline: other:870.3050, Repeated dose 28-day oral toxicity study in rodents. Office of Prevention, Pesticides and Toxic Substances (7101).	
STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.		

Aspiration hazard : Not classified

I	BTAC - BEHENTRIMONIUM CHLORIDE	
١	/iscosity, kinematic	Not applicable

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

: Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

 $\label{thm:local_equation} \mbox{Hazardous to the aquatic environment, short-term}$

: Very toxic to aquatic life.

(acute)

: Very toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, long-term

(chronic)

Not rapidly degradable

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Quaternary ammonium compounds, C20-22-alkyltrimethyl, chlorides (68607-24-9)			
LC50 - Fish [1] 3.5 mg/l Test organisms (species): Danio rerio (previous name: Brach			
EC50 - Crustacea [1] 1.39 mg/l Test organisms (species): Daphnia magna			
EC50 72h - Algae [1]	3.48 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)		
NOEC chronic fish	0.24 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) Duration: '9 d'		

isopropanol,isopropyl alcohol,propan-2-ol (67-63-0)		
LC50 - Fish [1] 9640 mg/l /96H - PIMEPHALES PROMELAS		
EC50 - Crustacea [1] 9714 mg/l /24h - Dapnia magna		
EC50 - Crustacea [2] 1400 mg/l /48h crustacean		
EC50 72h - Algae [1] 1800 mg/l 7d - scenedesmus quadricauda		
EC50 72h - Algae [2] 1000 mg/l 8d - microcystis aeruginosa		

12.2. Persistence and degradability

BTAC - BEHENTRIMONIUM CHLORIDE		
Persistence and degradability	No information available.	

12.3. Bioaccumulative potential

isopropanol,isopropyl alcohol,propan-2-ol (67-63-0)	
Partition coefficient n-octanol/water (Log Pow)	0.05

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 3077	UN 3077	UN 3077	UN 3077	UN 3077

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ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS QUATERNARY AMMONIUM COMPOUNDS, C20-22- ALKYLTRIMETHYL, CHLORIDES),) N.O.S. (CONTAINS QUATERNARY AMMONIUM POLLUTANT 14.3. Transport hazard class(es) 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	14.2. UN proper shippin	g name			
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS QUATERNARY AMMONIUM COMPOUNDS, C20-22- ALKYLTRIMETHYL, CHLORIDES),), 9, III, (-) 14.3. Transport hazard class(es) 9 9 9 9 9 9 9 9 9 14.4. Packing group III III III III III III III III III	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS QUATERNARY AMMONIUM COMPOUNDS, C20-22- ALKYLTRIMETHYL,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,	· ·	HAZARDOUS SUBSTANCE, SOLID,	HAZARDOUS SUBSTANCE, SOLID,
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS QUATERNARY AMMONIUM COMPOUNDS, C20-22- ALKYLTRIMETHYL, CHLORIDES),), 9, III, (-) 14.3. Transport hazard class(es) 9 9 9 9 9 9 14.4. Packing group III III III III III III III III 14.5. Environmental hazards Dangerous for the environment: Yes Page 10 Pagerous for the environment: Yes environment:	Transport document descr	iption			
9 9 9 9 14.4. Packing group 14.5. Environmental hazards Dangerous for the environment: Yes Pangerous for the environment is Yes Pangerous for the	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (CONTAINS QUATERNARY AMMONIUM COMPOUNDS, C20-22- ALKYLTRIMETHYL,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S., 9, III, MARINE	hazardous substance, solid,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,
14.4. Packing group III III III III III III III III III I	14.3. Transport hazard o	class(es)			
III III III III III III III III III II	9	9	9	9	9
III III III III III III III III III II	**************************************		**************************************	***************************************	9
14.5. Environmental hazards Dangerous for the environment : Yes Parison Dangerous for the environ	14.4. Packing group				
Dangerous for the environment: Yes Environment: Yes Dangerous for the environment: Yes Pangerous for the environment for the e	III	III	III	III	III
environment : Yes	14.5. Environmental haz	ards			
	0	environment : Yes	•	_	_
No supplementary information available	No supplementary information	n available			

14.6. Special precautions for user

Overland transport

Classification code (ADR) : M7

Special provisions (ADR) : 274, 335, 375, 601

Limited quantities (ADR) : 5kg Excepted quantities (ADR) : E1

Packing instructions (ADR) : P002, IBC08, LP02, R001

Special packing provisions (ADR) : PP12, B3
Mixed packing provisions (ADR) : MP10

Portable tank and bulk container instructions (ADR) : T1, BK1, BK2, BK3

Portable tank and bulk container special provisions : TP33

(ADR)

Tank code (ADR) : SGAV, LGBV

Vehicle for tank carriage : AT
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V13
Special provisions for carriage - Bulk (ADR) : VC1, VC2
Special provisions for carriage - Loading, unloading : CV13

and handling (ADR)

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Hazard identification number (Kemler No.) : 90

Orange plates :

90 3077

Tunnel restriction code (ADR) : -

EAC code : 2Z

Transport by sea

Special provisions (IMDG) : 274, 335, 966, 967, 969

Limited quantities (IMDG) : 5 kg
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP02, P002
Special packing provisions (IMDG) : PP12
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B3

Tank instructions (IMDG) : BK1, BK2, BK3, T1

Tank special provisions (IMDG) : TP33
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-F
Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW23

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y956
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 956
PCA max net quantity (IATA) : 400kg
CAO packing instructions (IATA) : 956
CAO max net quantity (IATA) : 400kg

Special provisions (IATA) : A97, A158, A179, A197

ERG code (IATA) : 9L

Inland waterway transport

Classification code (ADN) : M7

Special provisions (ADN) : 274, 335, 375, 601

Limited quantities (ADN) : 5 kg
Excepted quantities (ADN) : E1
Equipment required (ADN) : PP, A
Number of blue cones/lights (ADN) : 0

Additional requirements/Remarks (ADN) : * Only in the molten state. ** For carriage in bulk see also 7.1.4.1. ** * Only in the case of

transport in bulk.

Rail transport

Classification code (RID) : M7

Special provisions (RID) : 274, 335, 375, 601

Limited quantities (RID) : 5kg
Excepted quantities (RID) : E1

Packing instructions (RID) : P002, IBC08, LP02, R001

Special packing provisions (RID) : PP12, B3
Mixed packing provisions (RID) : MP10

Portable tank and bulk container instructions (RID) : T1, BK1, BK2, BK3

Portable tank and bulk container special provisions : TP33

(RID)

Tank codes for RID tanks (RID) : SGAV, LGBV

Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W13
Special provisions for carriage – Bulk (RID) : VC1, VC2
Special provisions for carriage - Loading, unloading : CW13, CW31

and handling (RID)

Colis express (express parcels) (RID) : CE11
Hazard identification number (RID) : 90

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

France

Occupational of	diseases
Code	Description
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid
	hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons;
	alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters;
	dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

Germany

Employment restrictions :	Observe restrictions according Act on the Protection of Working Mothers (MuSchG)
	Observe restrictions according Act on the Protection of Young People in Employment

(JArbSchG)

Water hazard class (WGK) WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)

: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Hazardous Incident Ordinance (12. BImSchV) Netherlands

SZW-lijst van kankerverwekkende stoffen Behentrimonium chloride; C20/22-ATQ is listed SZW-lijst van mutagene stoffen

Behentrimonium chloride; C20/22-ATQ is listed

NIET-limitatieve lijst van voor de voortplanting None of the components are listed giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting : None of the components are listed

giftige stoffen - Ontwikkeling

Danish National Regulations

Classification remarks

giftige stoffen - Vruchtbaarheid

Denmark

Emergency management guidelines for the storage of flammable liquids must be followed

Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

Switzerland

: LK 6.1 - Toxic materials Storage class (LK)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road

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BCF Biconcentration factor BLV Biological limit value BOD Biochemical oxygen demand (BOD) COD Chemical oxygen demand (COD) DMEL Derived Minimal Effect level EC-No. European Community number ECSO Median effective concentration EN European Standard IARC International Agency for Research on Cancer IATA International Air Transport Association IMDG International Minime Dangerous Goods LCSO Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration NOAEL No-Observed Adverse Effect Concentration NOAEL No-Observed Adverse Effect Concentration OEC Organisation for Economic Co-operation and Development OEL Occupational Exposure Limit PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration RID Regulations concerning the International Carriage of Dangerous Goods by Rail SDS Safety Data Sheet STP Sawage treatment plant ThOD Theoretical Oxygen demand (ThOD) TLM Median Totarus Carriage Oxygen demand (ThOD) TLM Median Totarus Carriage Specified VevB Very Persistent and Very Bioaccumulative PVB Very Persistent and Very Bioaccumulative	ATE	Acute Toxicity Estimate
BOD Biochemical oxygen demand (BOD) COD Chemical oxygen demand (COD) DMEL Derived Minimal Effect level DNEL Derived Minimal Effect level EC-No. European Community number ECS0 Median effective concentration EN European Standard IARC International Agency for Research on Cancer IATA International Agency for Research on Cancer IATA International Maritime Dangerous Goods LCS0 Median lethal concentration IMDG International Maritime Dangerous Goods LCS0 Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration NOAEL No-Observed Adverse Effect Concentration OECD Organisation for Economic Co-operation and Development OEL Occupational Exposure Limit PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration RID Regulations concerning the International Carriage of Dangerous Goods by Rail SDS Safety Data Sheet STP Sewage treatment plant ThOD Theoretical oxygen demand (ThOD) TLM Median Tolerance Limit VOC Volatile Organic Compounds CAS-No. Chemical Abstract Service number N.O.S. Not Otherwise Specified	BCF	·
BOD Biochemical oxygen demand (BOD) COD Chemical oxygen demand (COD) DMEL Derived Minimal Effect level DNEL Derived Minimal Effect level EC-No. European Community number ECSO Median effective concentration EN European Standard IARC International Agency for Research on Cancer IATA International Agency for Research on Cancer IATA International Maritime Dangerous Goods LCSO Median lethal concentration IMDG International Maritime Dangerous Goods LCSO Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration NOAEL No-Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Level NOAEC No-Observed Effect Concentration OCCO Organisation for Economic Co-operation and Development OEL Occupational Exposure Limit PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration RID Regulations concerning the International Carriage of Dangerous Goods by Rail SDS Safety Data Sheet STP Sewage treatment plant ThOD Theoretical oxygen demand (ThOD) TLM Median Tolerance Limit VOC Volatile Organic Compounds CAS-No. Chemical Abstract Service number N.O.S. Not Otherwise Specified	BLV	Biological limit value
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CAS-No. Chemical Abstract Service number N.O.S. Not Otherwise Specified vPvB Very Persistent and Very Bioaccumulative	TLM	Median Tolerance Limit
N.O.S. Not Otherwise Specified vPvB Very Persistent and Very Bioaccumulative	VOC	Volatile Organic Compounds
vPvB Very Persistent and Very Bioaccumulative	CAS-No.	Chemical Abstract Service number
	N.O.S.	Not Otherwise Specified
	vPvB	Very Persistent and Very Bioaccumulative
Endocrine disrupting properties	ED	Endocrine disrupting properties

Data sources : This MSDS has been established with data of MSDS coming from upstream suppliers.

Full text of H- and EUH-statements:		
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	

Safety Data Sheet

according to Regulation (EU) 2015/830

Flammable liquids, Category 2
Skin corrosion/irritation, Category 2
Specific target organ toxicity — Repeated exposure, Category 2
Specific target organ toxicity — Single exposure, Category 3, Narcosis
Highly flammable liquid and vapour.
Causes skin irritation.
Causes serious eye damage.
Causes serious eye irritation.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.
Toxic to aquatic life with long lasting effects.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.