

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 12/4/2023 Version: 1.0

SECTION 1: Identification of the substa	ance/mixture and of the company/undertaking
1.1. Product identifier	
Product form Trade name EC-No. CAS-No. Product code Formula Chemical structure	: Substance : CHLOROACETALDEHYDE DIMETHYL ACETAL EXTRA PURE : 202-624-0 : 97-97-2 : 02728 : C4H9CIO2 : H_3COOCH_3
Synonyms	: 2-Chloro-1,1-dimethoxyethane, Dimethyl chloroacetal
1.2. Relevant identified uses of the substar	nce or mixture and uses advised against
1.2.1. Relevant identified uses Use of the substance/mixture	: Laboratory chemicals Manufacture of substances
1.2.2. Uses advised against No additional information available	
1.3. Details of the supplier of the safety dat	ta sheet
LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA T +91 22 6663 6663, F +91 22 6663 6699 info@lobachemie.com, www.lobachemie.com	
1.4. Emergency telephone number	
Emergency number	: + 91 22 6663 6663 (9:00am - 6:00 pm)
SECTION 2: Hazards identification	
2.1. Classification of the substance or mixt	ure
Classification according to Regulation (EC) No. 7 Flammable liquids, Category 3 Acute toxicity (oral), Category 4 Hazardous to the aquatic environment – Chronic Ha Category 3 Full text of H- and EUH-statements: see section 16	H226 H302
Adverse physicochemical, human health and en	vironmental effects

Flammable liquid and vapour. Harmful if swallowed. Harmful to aquatic life with long lasting effects.

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2.2. Label elements	
Labelling according to Regulation (EC)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	GHS02 GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	 H226 - Flammable liquid and vapour. H302 - Harmful if swallowed. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P240 - Ground and bond container and receiving equipment. P241 - Use explosion-proof electrical/ventilating/lighting equipment. P273 - Avoid release to the environment. P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Substance type	: Mono-constituent	
Name	Product identifier	%
CHLOROACETALDEHYDE DIMETHYL ACETAL	CAS-No.: 97-97-2 EC-No.: 202-624-0	100
3.2. Mixtures	,	

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion	 Call a poison center or a doctor if you feel unwell. Remove person to fresh air and keep comfortable for breathing. Rinse skin with water/shower. Take off immediately all contaminated clothing. Rinse eyes with water as a precaution. Rinse mouth. Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effe	ects, both acute and delayed
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	 Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard. None under normal conditions. None under normal conditions. None under normal conditions.

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

Treat symptomatically.

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SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.Do not use a heavy water stream.
5.2. Special hazards arising from the subst	tance or mixture
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 Flammable liquid and vapour. No direct explosion hazard. Toxic fumes may be released.
5.3. Advice for firefighters	
Firefighting instructions Protection during firefighting	 Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental relea	se measures
6.1. Personal precautions, prote	ctive equipment and emergency procedures
General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.
6.1.1. For non-emergency personnel	
Protective equipment	: Wear recommended personal protective equipment.
Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking.
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".
Emergency procedures	: Evacuate unnecessary personnel. Stop leak if safe to do so.
6.2. Environmental precautions	

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up		
For containment	: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.	
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.	
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		
Additional hazards when processed Precautions for safe handling	 Not expected to present a significant hazard under anticipated conditions of normal use. Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. 	
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.	

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7.2. Conditions for safe storage	e, including any incompatibilities
Technical measures Storage conditions	 Ground/bond container and receiving equipment. Store in a well-ventilated place. Keep cool. Keep container tightly closed.
Packaging materials	: Store always product in container of same material as original container.
Switzerland	
Storage class (LK)	: LK 3 - Flammable liquids
7.3. Specific end use(s)	

No additional information available

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

Personal protective equipment:

Wear recommended personal protective equipment.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection: Chemical goggles or safety glasses

8.2.2.2. Skin protection

Skin and body protection: Wear a mask

Hand protection: Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection: Wear appropriate mask

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8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colourless to yellow.
Appearance	: Clear liquid.
Molecular mass	: 124.57 g/mol
Odour	: pleasant. aromatic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: 128 – 130 °C
Flammability	: Flammable liquid and vapour.
Lower explosion limit	: 2.3 vol %
Upper explosion limit	: Not available
Flash point	: 29 °C
Auto-ignition temperature	: 360 °C
Decomposition temperature	: Not available
рН	: 3.4 52 g/l aq. sol
Viscosity, kinematic	: Not available
Solubility	: Water: 52 g/l
Partition coefficient n-octanol/water (Log Kow)	: Not available
Partition coefficient n-octanol/water (Log Pow)	: 0.421 at 25°C
Vapour pressure	: 50 hPa at 50°C
Vapour pressure at 50°C	: Not available
Density	: 1.094 g/cm³ at 25°C
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Refractive index

: 1.414 - 1.416 (20°C, 589 nm)

SECTION 10: Stability and reactivity

10	1	Re	ac	tiv	vity
IU		IVE	au	LI V	lly

Flammable liquid and vapour.

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

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

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10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11.1. Information on hazard class	es as defined in Regulation (EC) No 1272/2008
Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
	pH: 3.4 52 g/l aq. sol
Serious eye damage/irritation	: Not classified
	pH: 3.4 52 g/l aq. sol
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
	: Not classified

SECTION 12: Ecological information	SECTION 12: Ecological information	
12.1. Toxicity		
Hazardous to the aquatic environment, short-term : (acute)	Harmful to aquatic life with long lasting effects. Not classified Harmful to aquatic life with long lasting effects.	
12.2. Persistence and degradability		
CHLOROACETALDEHYDE DIMETHYL ACETA	L EXTRA PURE (97-97-2)	
Persistence and degradability	Rapidly degradable	
12.3. Bioaccumulative potential		
CHLOROACETALDEHYDE DIMETHYL ACETAL EXTRA PURE (97-97-2)		
Partition coefficient n-octanol/water (Log Pow) 0.421 at 25°C		
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessment		
No additional information available		
12.6. Endocrine disrupting properties		
No additional information available		

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12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
Regional waste regulation Waste treatment methods Sewage disposal recommendations Product/Packaging disposal recommendations Additional information	 Disposal must be done according to official regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions. Disposal must be done according to official regulations. Disposal must be done according to official regulations. Flammable vapours may accumulate in the container. Do not re-use empty containers.

SECTION 14: Transport information

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

14.1. UN number or ID number

UN-No. (ADR)	: UN 1989
UN-No. (IMDG)	: UN 1989
UN-No. (IATA)	: UN 1989
UN-No. (ADN)	: UN 1989
UN-No. (RID)	: UN 1989

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: ALDEHYDES, N.O.S.
Proper Shipping Name (IMDG)	: ALDEHYDES, N.O.S.
Proper Shipping Name (IATA)	: Aldehydes, n.o.s.
Proper Shipping Name (ADN)	: ALDEHYDES, N.O.S.
Proper Shipping Name (RID)	: ALDEHYDES, N.O.S.
Transport document description (ADR)	: UN 1989 ALDEHYDES, N.O.S. (CHLOROACETALDEHYDE DIMETHYL ACETAL), 3, III, (D/E)
Transport document description (IMDG)	: UN 1989 ALDEHYDES, N.O.S. (CHLOROACETALDEHYDE DIMETHYL ACETAL), 3, III
Transport document description (IATA)	: UN 1989 Aldehydes, n.o.s. (CHLOROACETALDEHYDE DIMETHYL ACETAL), 3, III
Transport document description (ADN)	: UN 1989 ALDEHYDES, N.O.S., 3, III
Transport document description (RID)	: UN 1989 ALDEHYDES, N.O.S., 3, III

14.3. Transport hazard class(es)

ADR Transp

Transport hazard class(es) (ADR) Danger labels (ADR)

IMDG	
Transport hazard class(es) (IMDG)	
Danger labels (IMDG)	
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Transport hazard class(es) (IATA)	
Danger labels (IATA)	



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Special provisions (IMDG)	: 223, 274
Transport by sea	
Tunnel restriction code (ADR) EAC code	: D/E : •3Y
	1989
Drange plates	30
Hazard identification number (Kemler No.)	: 30
	: V12 : S2
Transport category (ADR)	: 3
Vehicle for tank carriage	: FL
(ADR) Tank code (ADR)	: LGBF
Portable tank and bulk container special provisions	: TP1, TP29
Portable tank and bulk container instructions (ADR)	: T4
Packing instructions (ADR) Mixed packing provisions (ADR)	: P001, IBC03, LP01, R001 : MP19
Excepted quantities (ADR)	: E1
Limited quantities (ADR)	: 51
Classification code (ADR) Special provisions (ADR)	: F1 : 274
Overland transport	
14.6. Special precautions for user	
Other information	: No supplementary information available
Marine pollutant	: No
Dangerous for the environment	: No
14.5. Environmental hazards	
Packing group (RID)	: III
Packing group (IATA) Packing group (ADN)	: III : III
Packing group (IMDG)	: III : III
Packing group (ADR)	: 111
14.4. Packing group	
	3
Danger labels (RID)	: 3
RID Transport hazard class(es) (RID)	: 3
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	: 3
ADN Fransport hazard class(es) (ADN)	: 3
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Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG)	: 5 L : E1 : P001, LP01 : IBC03 : T4 : TP1, TP29 : F-E : S-D : A
Air transport PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA) ERG code (IATA)	: E1 : Y344 : 10L : 355 : 60L : 366 : 220L : A3 : 3L
Inland waterway transport Classification code (ADN) Special provisions (ADN) Limited quantities (ADN) Excepted quantities (ADN) Carriage permitted (ADN) Equipment required (ADN) Ventilation (ADN) Number of blue cones/lights (ADN)	: F1 : 274 : 5 L : E1 : T : PP, EX, A : VE01 : 0
Rail transportClassification code (RID)Special provisions (RID)Limited quantities (RID)Excepted quantities (RID)Packing instructions (RID)Mixed packing provisions (RID)Portable tank and bulk container instructions (RID)Portable tank and bulk container special provisions(RID)Tank codes for RID tanks (RID)Transport category (RID)Special provisions for carriage – Packages (RID)Colis express (express parcels) (RID)Hazard identification number (RID)	: F1 : 274 : 5L : E1 : P001, IBC03, LP01, R001 : MP19 : T4 : TP1, TP29 : LGBF : 3 : W12 : CE4 : 30

14.7. Maritime transport in bulk according to IMO instruments

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

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(a)	CHLOROACETALDEHYDE DIMETHYL ACETAL EXTRA PURE

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EU restriction list (REACH Annex XVII)	
Reference code	Applicable on
3(b)	CHLOROACETALDEHYDE DIMETHYL ACETAL EXTRA PURE
3(c)	CHLOROACETALDEHYDE DIMETHYL ACETAL EXTRA PURE
40.	CHLOROACETALDEHYDE DIMETHYL ACETAL EXTRA PURE

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Dual-Use Regulation (428/2009)

Not listed on the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

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; ID No. 2380).
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: The substance is not listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: The substance is not listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Class for fire hazard	: Class II-1
Store unit	: 5 liter
Classification remarks	: R10 <h226;h302;h412>; Emergency management guidelines for the storage of flammable liquids must be followed</h226;h302;h412>

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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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 ATE Acute Toxicity Estimate BCF Bioocentration factor BLV Biological limit value BOD Biochemical oxygen demand (BOD) COD Chemical oxygen demand (COD) DMEL Derived Minimal Effect level DNEL Derived-No Effect Level EC-No. European Community number ECS0 Median effective concentration EN European Standard IARC International Ari Transport Association IMDG International Ari Transport Association ILDS0 Median lethal dose LOAEL Lowest Observed Adverse Effect Concentration NOAEC No-Observed Adverse Effect Concentration OECD Organisation for Econormic Co-op	SECTION 16: Other	SECTION 16: Other information		
ADR European Agreement concerning the International Carriage of Dangerous Goods by Road ATE Acute Toxicity Estimate BCF Bioconcentration factor BLV Biological limit value 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 Adir Transport Association IMDG International Adir Transport Association IDS0 Median leftal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration NOAEL No-Observed Adverse Effect Concentration NOAEL No-Observed Effect Concentration OCCO Organisation for Economic Co-operation and Development OECD Organisation for Economic Co-operation a	Abbreviations and acronyms:			
ATE Acute Toxicity Estimate BCF Bioconcentration factor BLV Biological limit value BOD Biochemical oxygen demand (BOD) COD Chemical oxygen demand (COD) DMEL Derived Minimal Effect level DNEL Derived-No 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 LDS0 Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration NOAEL No-Observed Adverse Effect Level NOEC No-Observed Adverse Effect Concentration OEL Occupational Exposure Limit PBT Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration OEL Occupational Exposure Limit PBT Peresistent Bioaccumulative Toxic	ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
BCF Bioconcentration factor BLV Biological limit value BOD Biochemical oxygen demand (BOD) COD Chemical oxygen demand (COD) DMEL Derived Minimal Effect level DNEL Derived-No 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 LC50 Median lethal concentration LD50 Median lethal concentration LD50 Median lethal cose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Concentration NOAEC No-Observed Adverse Effect Concentration OECD Organisation for Economic Co-operation and Development OECD Organisation for Economic Co-operation and Development OEL Occupational Exposure Limit PBT Persistent Bioaccumulative Toxic PNEC	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
BLVBiological limit valueBODBiochemical oxygen demand (BOD)CODChemical oxygen demand (COD)DMELDerived Minimal Effect levelDNELDerived-No Effect LevelEC-No.European Community numberEC50Median effective concentrationENEuropean StandardIARCInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Agency for Research on CancerLS50Median lethal concentrationLC50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOAELNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPrecistent Sioaccumulative ToxicPNECPrecistent Sioaccumulative ToxicSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic Compounds	ATE	Acute Toxicity Estimate		
BOD Biochemical oxygen demand (BOD) COO Chemical oxygen demand (COD) DMEL Derived Minimal Effect level DNEL Derived-No Effect Level EC-No. European Community number EC50 Median effective concentration EN European Standard IARC International Agency for Research on Cancer IATA International Air Transport Association IMDG International Maritime Dangerous Goods LC50 Median lethal concentration LD50 Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Level NOAEL No-Observed Adverse Effect Level NOEC No-Observed Effect Concentration OECD Organisation for Economic Co-operation and Development OEL Occupational Exposure Limit PBT Persistent Biacacumulative 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	BCF	Bioconcentration factor		
CODChemical oxygen demand (COD)DMELDerived Minimal Effect levelDNELDerived No Effect LevelEC-No.European Community numberEC50Median effective concentrationENEuropean StandardIARCInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECNo-Observed Effect ConcentrationDECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPBTPersistent Bilaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic Compounds	BLV	Biological limit value		
DMEL Derived Minimal Effect level DNEL Derived-No Effect Level EC-No. European Community number EC50 Median effective concentration EN European Standard IARC International Agency for Research on Cancer IATA International Air Transport Association IMDG International Maritime Dangerous Goods LC50 Median lethal concentration LD50 Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Level NOAEL No-Observed 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 Vola	BOD	Biochemical oxygen demand (BOD)		
DNELDerived-No Effect LevelEC-No.European Community numberEC50Median effective concentrationENEuropean StandardIARCInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-Observed Adverse Effect LevelNOECNo-Observed Effect ConcentrationOECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic Compounds	COD	Chemical oxygen demand (COD)		
EC-No.European Community numberEC50Median effective concentrationENEuropean StandardIARCInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Air Transport AssociationIMDGInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOECOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic Compounds	DMEL	Derived Minimal Effect level		
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TLM Median Tolerance Limit VOC Volatile Organic Compounds	STP	Sewage treatment plant		
VOC Volatile Organic Compounds	ThOD	Theoretical oxygen demand (ThOD)		
	TLM	Median Tolerance Limit		
	VOC	Volatile Organic Compounds		
CAS-NO. Chemical Abstract Service number	CAS-No.	Chemical Abstract Service number		
N.O.S. Not Otherwise Specified	N.O.S.	Not Otherwise Specified		
vPvB Very Persistent and Very Bioaccumulative	vPvB	Very Persistent and Very Bioaccumulative		
ED Endocrine disrupting properties	ED	Endocrine disrupting properties		

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Full text of H- and EUH-statements:	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H412	Harmful 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.