

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 9-5-2018 Revision date: 13-1-2021 Supersedes version of: 29-6-2020 Version: 1.4

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

1.1. Product identifier

Product form	: Mixture
Trade name	: Putoline Light Fork
UFI	: WF00-30VJ-T00C-0J79
Product code	: PF.10.00
Type of product	: Lubricants
Product group	: Trade product

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

:

1.2.1. Relevant identified uses

Intended for general public Main use category Use of the substance/mixture

: Industrial use, Professional use, Consumer use Hydraulic oil

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Putoline Oil Dollegoorweg 15 7602 EC Almelo - Netherlands T 0031 (0)546 81 81 65 vib@putoline.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aspiration hazard, Category 1 Full text of H statements : see section 16 H304

Adverse physicochemical, human health and environmental effects

May be fatal if swallowed and enters airways.

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) : GHS08 Signal word (CLP) : Danger

Contains	: Distillates (petroleum), hydrotreated heavy paraffinic; Distillates (petroleum), hydrotreated light naphthenic
Hazard statements (CLP)	: H304 - May be fatal if swallowed and enters airways.
Precautionary statements (CLP)	 P101 - If medical advice is needed, have product container or label at hand. P102 - Keep out of reach of children.
	P301+P310+P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.
	P405 - Store locked up.
	P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments

: Highly refined mineral oils and additives.

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Distillates (petroleum), hydrotreated heavy paraffinic (Note L)	(CAS-No.) 64742-54-7 (EC-No.) 265-157-1 (EC Index-No.) 649-467-00-8 (REACH-no) 01-2119484627-25	50 – 80	Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated light naphthenic (Note L)	(CAS-No.) 64742-53-6 (EC-No.) 265-156-6 (EC Index-No.) 649-466-00-2 (REACH-no) 01-2119480375-34	25 – 50	Asp. Tox. 1, H304
Distillates (petroleum), solvent-dewaxed light paraffinic substance with a Community workplace exposure limit (Note L)	(CAS-No.) 64742-56-9 (EC-No.) 265-159-2 (EC Index-No.) 649-469-00-9 (REACH-no) 01-2119480132-48	< 1	Asp. Tox. 1, H304
2,6-di-tert-butylphenol	(CAS-No.) 128-39-2 (EC-No.) 204-884-0 (REACH-no) 01-2119490822-33	< 1	Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Comments	: * contains one or more of the following CAS-numbers (REACH registration numbers):
	64741-88-4 (01-2119488706-23), 64741-89-5 (01-2119487067-30), 64741-95-3 (01-
	2119487081-40), 64741-96-4 (01-2119483621-38), 64741-97-5 (01-2119480374-36),
	64742-01-4 (01-2119488707-21), 64742-52-5 (01-2119467170-45), 64742-53-6 (01-
	2119480375-34), 64742-54-7 (01-2119484627-25), 64742-55-8 (01-2119487077-29),
	64742-56-9 (01-2119480132-48), 64742-57-0 (01-2119489287-22), 64742-62-7 (01-
	2119480472-38), 64742-65-0 (01-2119471299-27), 64742-71-8 (01-2119485040-48),
	72623-85-9 (01-2119555262-43), 72623-86-0 (01-2119474878-16), 72623-87-1 (01-
	2119474889-13), 74869-22-0 (01-2119495601-36)
	The highly refined mineral oil contains <3% (w/w) DMSOextract, according to IP346.

Note L : The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 'Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method', Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3. Full text of H-statements: see section 16

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 physician immediately. Remove person to fresh air and keep comfortable for breathing. Wash skin with plenty of water. Rinse eyes with water as a precaution. Do not induce vomiting. Call a physician immediately. 	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects Symptoms/effects after ingestion	No additional information available.Risk of lung oedema.	
4.3. Indication of any immediate medical attention and special treatment needed		

Treat symptomatically.

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 Hazardous decomposition products in case of fire	 Combustible liquid. Toxic fumes may be released. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release meas	ures
6.1. Personal precautions, protective equ	ipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area.

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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	
Avoid release to the environment.	
6.3. Methods and material for containment	t and cleaning up
Methods for cleaning up Other information	Take up liquid spill into absorbent material.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 Hygiene measures	 Provide good ventilation in process area to prevent formation of vapour. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, including	any incompatibilities
Storage conditions	: Keep container closed when not in use. Keep in a cool, well-ventilated place away from heat.
Storage temperature	$: 0 - 40 ^{\circ}\text{C}$

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Putoline Light Fork	
EU - Indicative Occupational Exposure Limit (IOEL)	
Exposure limits/standards for materials that can be formed when handling this product. When mists/aerosols can occur the following is recommended	5 mg/m3 - ACGIH TLV (inhalable fraction).

Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)	
EU - Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA	5 mg/m³

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

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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 symbol(s):



8.2.2.1. Eye and face protection

Eye protection:			
Safety glasses			
Туре	Field of application	Characteristics	Standard
Safety glasses	Droplet	clear	EN 166

8.2.2.2. Skin protection

Skin and body protection:	
Wear suitable protective clothing	

Hand protection:					
Protective gloves					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	≥ 0.35		EN ISO 374

Other skin protection Materials for protective clothing:	:
Wear suitable protective clothing	

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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9.1. Information on basic physical and c	hemical properties
9.1. Information on basic physical and c Physical state Colour Odour Odour threshold pH Relative evaporation rate (butylacetate=1) Melting point Freezing point Boiling point Flash point Auto-ignition temperature Decomposition temperature Flammability (solid, gas) Vapour pressure Relative vapour density at 20 °C Relative density Density Solubility Partition coefficient n-octanol/water (Log Pow) Viscosity, kinematic Viscosity, dynamic Explosive properties Oxidising properties	hemical properties

VOC content

: 0 %

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. Reacts violently with (strong) oxidizers.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No decomposition if stored normally.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral)

: Not classified

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	Not classified Not classified
2,6-di-tert-butylphenol (128-39-2)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
LD50 oral rat	> 5000 mg/kg bodyweight
LD50 dermal rabbit	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 5,53 mg/l/4h

Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	5,53 mg/l/4h

Distillates (petroleum), hydrotreate	d heavy paraffinic (64742-54-7)	
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
LC50 Inhalation - Rat	> 5,53 mg/l/4h	
Skin corrosion/irritation	: Not classified	
Serious eye damage/irritation	: Not classified	
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	
Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)		

Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)	
LOAEL (oral, rat, 90 days) 125 mg/kg bodyweight/day	
NOAEL (subchronic, oral, animal/male, 90 days)	≥ 2000 mg/kg bodyweight
NOAEL (subchronic, oral, animal/female, 90 days)	≥ 2000 mg/kg bodyweight

Aspiration hazard

: May be fatal if swallowed and enters airways.

Putoline Light Fork	
Viscosity, kinematic	15 mm²/s (40 °C) - ASTM D7279

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12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term advers effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

6-di-tert-butylphenol (128-39-2)	
EC50 - Crustacea [1]	0,45 mg/l (Daphnia magna, freshwater, 48h)
EC50 72h - Algae [1]	1,4 mg/l (Selenastrum capricornutum, freshwater)

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	
LC50 - Fish [1]	> 100 mg/l (96 h)
EC50 - Crustacea [1]	> 10 g/l
EC50 72h - Algae [1]	> 100 mg/l
NOEC (acute)	≥ 100 (72h)

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)			
LC50 - Fish [1] > 100 mg/l (Pimephales promelas, 96h) (OECD 203 method)			
C50 - Crustacea [1] > 10000 mg/l (Gammarus pulex, 48h) (OECD 202 method)			
EC50 - Crustacea [2]	> 10000 mg/l (Daphnia magna, 48h) (OECD 202 method)		
NOEC (acute)	≥ 100 mg/l (Pseudokirchnerella subcapitata, 72h) (OECD 201 method)		
NOEC chronic fish	≥ 1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox, 14/28d)		
NOEC chronic crustacea	10 mg/l (Daphnia magna, 21d) (OECD 211 method)		

12.2. Persistence and degradability

2,6-di-tert-butylphenol (128-39-2)	
Biodegradation 5 % S	Sturm (28 d)

Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)			
Persistence and degradability	Not readily biodegradable. Inherently biodegradable.		
Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)			
Persistence and degradability	Potentially biodegradable.		
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)			
Biodegradation	31 % (28d) (OECD 301F method)		
12.3. Bioaccumulative potential			

2,6-di-tert-butylphenol (128-39-2)	
Partition coefficient n-octanol/water (Log Kow)	4,5 Octanol/water (0,1 d)

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Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)		
Bioaccumulative potential	Bioaccumulative potential.	
Distillates (petroleum), solvent-dewaxed light	paraffinic (64742-56-9)	
Partition coefficient n-octanol/water (Log Pow)	> 3	
12.4. Mobility in soil		
Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)		
Ecology - soil	Insoluble in water.	
Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)		
Ecology - soil	Insoluble in water.	
12.5. Results of PBT and vPvB assessment		
Component		

Distillates (petroleu (64742-53-6)	Distillates (petroleum), hydrotreated light naphthenic (64742-53-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
	Distillates (petroleum), solvent-dewaxed light paraffinic (64742-56-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	5
13.1. Waste treatment methods	
Waste treatment methods	: Do not allow into drains or water courses. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
European List of Waste (LoW) code	: 13 01 10* - mineral based non-chlorinated hydraulic oils

SECTION 14: Transport information

ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippin	g name	· · · ·		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard o	class(es)	· · ·		
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				·
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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No supplementary information available

14.6. Special precautions for user

Overland transport Not applicable Transport by sea Not applicable Air transport Not applicable Inland waterway transport Not applicable Rail transport Not applicable

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

The following res	The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:		
Reference code	Applicable on		
3(b)	Putoline Light Fork ; 2,6-di-tert-butylphenol ; Distillates (petroleum), solvent-dewaxed light paraffinic ; Distillates (petroleum), hydrotreated heavy paraffinic ; Distillates (petroleum), hydrotreated light naphthenic		
3(c)	2,6-di-tert-butylphenol		

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

VOC content

: 0 %

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out

Distillates (petroleum), solvent-dewaxed light paraffinic Distillates (petroleum), hydrotreated light naphthenic

SECTION 16: Other information

Indication of changes:				
Section	Changed item	Change	Comments	
	Supersedes	Modified		
	Revision date	Modified		

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1.1	Trade name	Modified	
4.2	Symptoms/effects after ingestion	Modified	
4.2	Symptoms/effects	Modified	
16	Abbreviations and acronyms	Modified	

ADNEuropean Agreement concerning the International Carriage of Dangerous Goods by Intand WaterwaysADREuropean Agreement concerning the International Carriage of Dangerous Goods by RoadATEAcute Toxicity EstimateBCFBioconcentration factorBLVBiological limit valueBODBiochemical oxygen demand (BOD)CDDChemical oxygen demand (CDD)DMELOrhered Minimal Effect levelDNELDarived-No Effect LevelEC-NoEuropean Community numberECS0Median effective concentrationFIAEuropean StandardIARCInternational Agency for Research on CancerIARCInternational Agency for Research on CancerIARGInternational Agency for Research on CancerIARGInternational Agency for Research on CancerIARGMedian lethal concentrationLOS0Median lethal doseLOS0Median lethal doseLOS0Median lethal doseLOS0Moden lethal doseLOS0No-Deserved Adverse Effect ConcentrationNAECNo-Deserved Adverse Effect ConcentrationNAECNo-Deserved Adverse Effect ConcentrationNOECNo-Deserved Adverse Effect ConcentrationRDESociation for Economic Co-operation and DevelopmentCECNSecoletation ScoletationSociation SecoletationSecoletationRDESecoletation SecoletationRDESecoletation SecoletationRDESecoletation SecoletationSociation SecoletationSecoletatio	Abbreviations and acronyms:			
ATEAcute Toxicity EstimateBCFBioconcentration factorBLVBiological limit valueBODBiochemical oxygen demand (BOD)CODChemical oxygen demand (COD)DMELDerived Minimal Effect levelDNELDerived Minimal Effect levelEC-No.European Community numberEC50Median effective concentrationENEuropean StandardIARCInternational Agency for Research on CancerIATAInternational Adritime Dangerous GoodsLOS0Median lefthal dooseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelNOAELNo-Observed Effect ConcentrationNOAECNo-Observed Effect Concentration and DevelopmentOELOccupational Exposure LimitPHTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)Theoretical oxygen demand (ThOD)TL	ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
BCF Bioconcentration factor BLV Biological limit value BCD Biochemical oxygen demand (BOD) COD Chemical oxygen demand (CD) DMEL Derived Minimal Effect level DNEL Derived Minimal Effect level EC-No. European Community number EC50 Median effective concentration ENC European Standard IARC International Agency for Research on Cancer IATA International Agency for Research on Cancer IATA International Agency for Research on Cancer IATA International Adentive Dangerous Goods LC50 Median lethal dose LC50 Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Level NOAEC No-Observed Effect Concentration NOAEL Occupational Exposure Limit PRT Persistent Bioaccumulative Toxic PREC Occupational Exposure Limit PRE Persistent Bioaccumulative Toxic PNEC Predicted No-Effect Concentration	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
BLV Biological limit value BOD Biochemical oxygen demand (BOD) COD Chemical oxygen demand (COD) DMEL Derived Minimal Effect level DNFL Derived-No Effect Level EC-No. European Community number EC50 Median effective concentration EC50 Median effective concentration INC International Agency for Research on Cancer IATA International Agency for Research on Cancer IATA International Agency for Research on Cancer IATA International Maritime Dangerous Goods LOS0 Median lethal concentration LD50 Median lethal dose LOAEL Lowest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Level NOAEC No-Observed Effect Concentration OECD Organisation for Economic Co-operation and Development OECL No-Observed Effect Concentration OECL No-Observed Effect Concentration OECL Occupational Exposure Limit PBT Persistent Bioaccumulative Toxic PNEC <	ATE	Acute Toxicity Estimate		
BODBiochemical oxygen demand (BOD)CODChemical oxygen demand (COD)DMELDerived Minimal Effect levelDNELDerived No Effect LevelEC-No.European Community numberECS0Median effective concentrationENEuropean StandardIARCInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Maritime Dangerous GoodsLOS0Median teltal concentrationLOS0Median teltal concentrationLOS0Median teltal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECNo-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 SheetSTPSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberNo.S.Not Othenwise Specified	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 Agency for Research on CancerIATAInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAELNo-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 Dala SheetSTFSewage traatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberNo.S.Not Otherwise Specified	BLV	Biological limit value		
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 Adverse Effect LevelNOAELOccupational Exposure Effect LevelNOECOccupational 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 CompoundsCAS-No.Chemical Abstract Service numberNo.S.Not Otherwise Specified	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 Air Transport AssociationIMDGInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAECNo-Observed Adverse Effect ConcentrationNOAECNo-Observed Adverse Effect LevelNOECOrganisation for Economic Co-operation and DevelopmentOECDOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPBTPersitent Bioaccumulative ToxicPNECRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberNo.S.Not Otherwise Specified	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 concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect ConcentrationNOAELNo-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 CompoundsCAS-No.Chemical Abstract Service numberN.S.Not Otherwise Specified	DMEL	Derived Minimal Effect level		
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ThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise Specified	SDS	Safety Data Sheet		
TLM Median Tolerance Limit VOC Volatile Organic Compounds CAS-No. Chemical Abstract Service number N.O.S. Not Otherwise Specified	STP	Sewage treatment plant		
VOC Volatile Organic Compounds CAS-No. Chemical Abstract Service number N.O.S. Not Otherwise Specified	ThOD	Theoretical oxygen demand (ThOD)		
CAS-No. Chemical Abstract Service number N.O.S. Not Otherwise Specified	TLM	Median Tolerance Limit		
N.O.S. Not Otherwise Specified	VOC	Volatile Organic Compounds		
	CAS-No.	Chemical Abstract Service number		
vPvB Very Persistent and Very Bioaccumulative	N.O.S.	Not Otherwise Specified		
	vPvB	Very Persistent and Very Bioaccumulative		

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

ED	Endocrine disrupting properties
Full text of H- and EUH-statements:	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H400	Very toxic to aquatic life.
H410	Very 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.