

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 11/18/2019 Revision date: 4/23/2024 Supersedes version of: 6/28/2023 Version: 1.4

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

1.1. Product identifier

Product form	: Substance (UVCB)
Product name	: PATCHOULI INDONESIAN OIL
EC-No.	: 282-493-4
CAS-No.	: 8014-09-3
Product code	: 50-6210-01
Product group	: Trade product

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

1.2.1. Relevant identified uses

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

The Lebermuth Company 4004 Technology Drive 46628 South Bend, IN United States T 574-259-7000, F 574-258-7450 info@lebermuth.com, www.lebermuth.com

1.4. Emergency telephone number

Emergency number

: CHEMTREC - USA: 800-424-9300 International: +1 703-527-3887 / 1-800-424-9300 CCN 13010

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin sensitisation, category 1B	H317
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Chronic Hazard,	H411
Category 2	
Full text of H- and EUH-statements: see section 16	

Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 12	72/2008 [CLP]			
Hazard pictograms (CLP)				
	GHS07 GHS08 GHS09			
Signal word (CLP)	: Danger			
Hazard statements (CLP)	: H304 - May be fatal if swallowed and enters airways.			
	H317 - May cause an allergic skin reaction.			
	H411 - Toxic to aquatic life with long lasting effects.			
Precautionary statements (CLP)	: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.			
- 、 ,	P272 - Contaminated work clothing should not be allowed out of the workplace.			

Safety Data Sheet

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

P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P331 - Do NOT induce vomiting.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
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

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

SECTION 3: Composition/ir	formation on ingredients
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3.1. Substances		
Custom name : CAS-No. :	UVCB PATCHOULI OIL 8014-09-3 282-493-4	
Name	Product identifier	%
PATCHOULI OIL	CAS-No.: 8014-09-3 EC-No.: 282-493-4	100

3.2. Mixtures

Not applicable

SECTION 4: First aid measures				
4.1. Description of first aid measures				
First-aid measures general	: Call a physician immediately.			
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 or rash occurs: Get medical advice/attention.			
First-aid measures after eye contact	: Rinse eyes with water as a precaution.			
First-aid measures after ingestion	: Do not induce vomiting. Call a physician immediately.			
4.2. Most important symptoms and effects, both acute and delayed				
Symptoms/effects after inhalation	: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.			
Symptoms/effects after skin contact	: May cause an allergic skin reaction.			
Symptoms/effects after eye contact	: None under normal conditions.			
Symptoms/effects after ingestion	: Risk of lung oedema.			

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

Treat symptomatically.

Safety Data Sheet

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

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 substance or mixture				
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 No fire hazard. 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 release measures 6.1. Personal precautions, protective equipment and emergency procedures			
6.1.1. For non-emergency personnel			
Protective equipment Emergency procedures	 Wear recommended personal protective equipment. Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. 		
6.1.2. For emergency responders			
Protective equipment Emergency procedures	 Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". 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 conta	ainment and cleaning up		
For containment	: Collect spillage. 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.		
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. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
Hygiene measures	: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Safety Data Sheet

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

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	:	Keep in a cool, well-ventilated place away from heat.
Storage conditions	:	Store locked up.
Packaging materials	:	Store always product in container of same material as original container.

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: Safety glasses

8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: Protective gloves

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

Safety Data Sheet

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

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	: Not available
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not applicable
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: 93.3 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Insoluble.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 0.9634 (0.955 – 0.985)
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

VOC content	: 6.15 %	
Refractive index	: 1.508 (1.5 – 1.525)	

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

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

10.5. Incompatible materials

No additional information available

Safety Data Sheet

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

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general Hazardous to the aquatic environment, short–term (acute) Hazardous to the aquatic environment, long–term	 Toxic to aquatic life with long lasting effects. Not classified Toxic to aquatic life with long lasting effects. 	
(chronic)		
12.2. Persistence and degradability		
PATCHOULI OIL (8014-09-3)		
Persistence and degradability	Rapidly degradable	
12.3. Bioaccumulative potential		
No additional information available		
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		
12.7. Other adverse effects		
No additional information available		

Safety Data Sheet

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

SECTION 13: Disposal considerations	5
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. Do not re-use empty containers.
SECTION 14: Transport information	
In accordance with ADR / IMDG / IATA / ADN / RI)

14.1. UN number or ID number	
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	: UN 3082 : UN 3082 : UN 3082 : UN 3082 : UN 3082
14.2. UN proper shipping name	
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR)	 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PATCHOULI OIL) UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PATCHOULI OIL) UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PATCHOULI OIL), 9, III, (-) UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description (IATA)	(PATCHOULI OIL), 9, III, MARINE POLLUTANT : UN 3082 Environmentally hazardous substance, liquid, n.o.s. (PATCHOULI OIL), 9, III
Transport document description (ADN)	 : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PATCHOULI OIL), 9, III
Transport document description (RID)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PATCHOULI OIL), 9, III

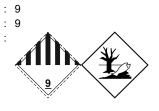
14.3. Transport hazard class(es)

ADR

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

Transport hazard class(es) (IMDG)

Danger labels (IMDG)



IMDG



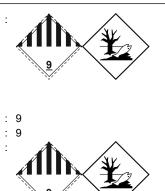
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IATA

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

Safety Data Sheet

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



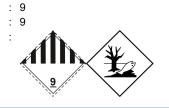
RID

ADN

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

Transport hazard class(es) (ADN)

Danger labels (ADN)



14.4. Packing group	
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	: III : III : III : III : III
14.5. Environmental hazards	
Dangerous for the environment Marine pollutant Other information	: Yes : Yes : No supplementary information available
14.6. Special precautions for user	
Overland transport Classification code (ADR) Special provisions (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Special packing provisions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriage - Packages (ADR) Special provisions for carriage - Loading, unloading and handling (ADR)	 M6 274, 335, 375, 601 5I E1 P001, IBC03, LP01, R001 PP1 MP19 T4 TP1, TP29 LGBV AT 3 V12 CV13
Hazard identification number (Kemler No.) Orange plates	90 90 3082
Tunnel restriction code (ADR)	: -
EAC code	: •3Z

Safety Data Sheet

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

Transport by sea		
Special provisions (IMDG)	:	274, 335, 969
Limited quantities (IMDG)		5 L
Excepted quantities (IMDG)		E1
Packing instructions (IMDG)		LP01, P001
Special packing provisions (IMDG)	:	PP1
IBC packing instructions (IMDG)		IBC03
Tank instructions (IMDG)		T4
Tank special provisions (IMDG)	:	TP1, TP29
EmS-No. (Fire)		F-A
EmS-No. (Spillage)	:	S-F
Stowage category (IMDG)	:	A
MFAG-No	:	171
Air transport		
PCA Excepted quantities (IATA)	:	E1
PCA Limited quantities (IATA)		Y964
PCA limited quantity max net quantity (IATA)		30kgG
PCA packing instructions (IATA)		964
PCA max net quantity (IATA)		450L
CAO packing instructions (IATA)		964
CAO max net quantity (IATA)		450L
Special provisions (IATA)		A97, A158, A197, A215
ERG code (IATA)		9L
	•	
Inland waterway transport		
Classification code (ADN)	:	M6
Special provisions (ADN)	:	274, 335, 375, 601
Limited quantities (ADN)	:	5 L
Excepted quantities (ADN)	:	E1
Carriage permitted (ADN)	:	Т
Equipment required (ADN)	:	PP
Number of blue cones/lights (ADN)	:	0
Rail transport		
Classification code (RID)		M6
Special provisions (RID)		274, 335, 375, 601
Limited quantities (RID)		5L
Excepted quantities (RID)		E1
Packing instructions (RID)		P001, IBC03, LP01, R001
Special packing provisions (RID)		PP1
Mixed packing provisions (RID)	:	MP19
Portable tank and bulk container instructions (RID)	:	T4
Portable tank and bulk container instructions (ND)	:	
	•	TP1, TP29
(RID) Tank opdag for BID tanka (BID)		
Tank codes for RID tanks (RID)	:	LGBV 3
Transport category (RID)	:	3 W12
Special provisions for carriage – Packages (RID)	:	
Special provisions for carriage - Loading, unloading	•	CW13, CW31
and handling (RID)		050
Colis express (express parcels) (RID)		CE8
Hazard identification number (RID)	·	90
14.7 Maritime transport in bulk according t		MO instruments

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

Safety Data Sheet

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

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(b)	PATCHOULI OIL
3(c)	PATCHOULI OIL

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)

Contains no substance subject to 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.

VOC Directive (2004/42)

VOC content

: 6.15 %

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the Canadian DSL (Domestic Substances List)

Germany

Water hazard class (WGK)	 Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV).
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject to 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 III-1
Store unit	: 50 liter
Classification remarks	: Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed

Safety Data Sheet

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

Danish National Regulations

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

ADNEuropean Agreement concerning the International Carriage of Dangerous Goods by Inland WaterwaysAOREuropean Agreement concerning the International Carriage of Dangerous Goods by RoadATEAcute Toxicity EstimateBOCBioconcertration factorBUVBiocogical limit valueBODChemical oxygen demand (BOD)CODChemical oxygen demand (BOD)DNELDerived Minimal Effect levelDNELDerived-No Effect LevelEC-No.European Community numberEC-No.European Community numberEC-No.European Community numberEXTInternational Agency for Research on CancerIARCInternational Agency for Research on CancerIARAInternational Agency for Research on CancerIARAInternational Agency for Research on CancerIARAInternational Arritansport AssociationIARGInternational Agency for Research on CancerIARAInternational Agency for Research on CancerIASAModelan Iethal concentrationIAGEVosterved Adverse Effect CancentrationIAGENo-Doserved Adverse Effect CancentrationIAGENo-Doserved Adverse Effect CancentrationIAGENo-Doserved Adverse Effect CancentrationIAGEPredicted No-Effect ConcentrationIAGEPredicted No-Effect ConcentrationIAGESevage teatment	Abbreviations and ac	ronyms:
ATEAcute Toxity EstimateBCFBioconcentration factorBLVBiological limit valueBDOBiochemical 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 CancerIARCInternational Agency for Research on CancerIARGInternational Maritime Dangerous GoodsLC50Median lethal concentrationIADGLInternational Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECNo-Observed Effect ConcentrationNOAELNo-Observed Effect ConcentrationNOAELNo-Observed Effect ConcentrationNOECOrganisation for Economic Co-operation and DevelopmentOELOcoletional Exposure LimitPTPersistent Bioaccumulative ToxicPRICPresistent Bioaccumulative ToxicNDRSafety Data SheetSISSafety Data SheetSTDNeurogen demand (ThOD)ThodNeurote	ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
BCFBioconcentration factorBLVBiological limit valueBLVBiological limit valueBCDBiochemical oxygen demand (BOD)CDUChemical oxygen demand (GOD)DMELDerived Minima Effect levelDNELDerived-No Effect levelCCNo.European Community numberECS0Median effective concentrationENEuropean StandardIARCInternational Agency for Research on CancerIARAInternational Aritrime Dangerous GoodsLCS0Median effective concentrationLCS0Median effective ConcentrationIARGInternational Aritrime Dangerous GoodsLCS0Median lethal concentrationLCS0Median effective ConcentrationLCS0Median lethal doseLCS0No-Observed Adverse Effect LevelNAECNo-Observed Effect ConcentrationNAECOrganisation for Economic Co-operation and DevelopmentOECDOrganisation for Economic Co-operation and DevelopmentOELOrganisation for Economic Co-operation and DevelopmentPRCPersistent Blaccumulative ToxicPRCPersistent Blaccumulative ToxicPRCRegulations concerning the International Carinage of Dangerous Goods by RailSISSafety Data SheetSISSafety Data SheetThotNeoretical oxygen demand (ThOD)Theoretical oxygen demand (ThOD)Theoretical oxygen demand (ThOD)Theoretical oxygen demand (ThOD)Sister Gato Torgenous LimitVoCValit	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BIV Biological limit value BOD Biochemical oxygen demand (BOD) COD Chemical oxygen demand (COD) DMEL Derived Alvinal Effect level DNEL Derived-No Effect Level EC-No. European Community number ECS0 Median effective concentration INRC International Agency for Research on Cancer IATA International Agency for Research on Cancer IATA International Agency for Research on Cancer IAS0 Median lefhal concentration IAD5 Median lefhal concentration IAD6 Novest Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Level NOAEC No-Observed Adverse Effect Level NOEC No-Observed Adverse Effect Level NOEC No-Observed Infert Concentration OEC No-Observed Infert Concentration NOEC No-Observed Infert Concentration OEL Occupational Exposure Limit PRC Regulations concerning the International Carriage of Dangerous Goods by Rall	ATE	Acute Toxicity Estimate
BOD Biochemical oxygen demand (BOD) COD Chemical oxygen demand (COD) DNEL 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 Maritime Dangerous Goods IASO Median leftal Goo ICSO Median leftal Goo IASO Median leftal Goo IASO No-Observed Adverse Effect Level NOAEL No-Observed Adverse Effect Level NOEC<	BCF	Bioconcentration factor
CDDChemical axyger demand (CDD)DMELDerived Minimal Effect levelDNELDerived-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 concentrationLD61Lowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOECOcupational for Economic Co-operation and DevelopmentOECDOrganisation for Economic Co-operation and DevelopmentOELOcupational Exposure LimitPNECPredicted NocEffect ConcentrationNDESafety Data SheetSTPSafety Data SheetTADDInternational Carinage of Dangerous Goods by RailSDSSafety Data SheetSTPSwage trademont plantTADDInternational Carinage of Dangerous Goods by RailTADDInternational Carinage of Dangerous Goods by RailSDSSafety Data SheetSTPSwage trademont plantTADDInternational Carinage of Dangerous Goods by RailTADDInternational Carinage of Dangerous Goods by RailTADDStevel Level LevelNOCSafety Data SheetSTPSwage tra	BLV	Biological limit value
DMELDerived Mininal 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 Iethal concentrationLD50Median Iethal concentrationLD51Lowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOECOrganisation for Economic Co-operation and DevelopmentOECDOrganisation for Economic Co-operation and DevelopmentPRECPersistent Bioaccumulative ToxicPRECPersistent Bioaccumulative ToxicPRECRegulations concerning the International Carriage of Dangerous Goods by RailSISSafey Data SheetSISSafey Data SheetTIMMedian Tolerance LimitYOCVolatile Organic CompoundsCAS-No.Chenical 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 Air Transport AssociationINDGInternational Martitime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal doseLOAELIovest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECOrganisation for Economic Co-operation and DevelopmentOECDOrganisation for Economic Co-operation and DevelopmentPBTPredicted No-Effect ConcentrationNOAECPredicted No-Effect ConcentrationNOEDOcupational Exposure LimitPBTPredicted No-Effect ConcentrationRDSequelations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSequelations concerning the International Carriage of Dangerous Goods by RailThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCValiel Organic CompoundsCAS-No.Iotherwise SpecifiedNo.Iotherwise Specified	COD	Chemical oxygen demand (COD)
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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 the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:		
ED Endocrine disrupting properties		
Full text of H- and EUH-statements:		
Aquatic Chronic 2 Hazardous to the aquatic environment – Chronic Hazard, Category 2		
Asp. Tox, 1 Aspiration bazard Category 1		

Asp. Tox. 1	Aspiration hazard, Category 1
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
Skin Sens. 1B	Skin sensitisation, category 1B

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.