ND-OIL 8

SAFETY DATA SHEET

Regulation (EU) 2020/878

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



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VERSION: 3.0

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

1.1. Product identifier

 Trade name
 ND-OIL 8

 Product code
 4816

 SDS Number
 4816

Product use Professional use

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

Relevant identified uses Compressor oil for air conditioning systems

Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Supplier

DENSO Europe B.V. Hogeweyselaan 165

1382 JL Weesp - Netherlands

T +31-294-493493 - F +31-294-417122 EU_DNEU_MSDS_info@eu.denso.com

www.denso-am.eu

1.4. Emergency telephone number

+31 (0)294 493 493 (Mo. - Fr. 08:30 - 17:00 CET)

2. SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Health hazards Skin sensitisation, Category 1 H317 May cause an allergic skin reaction.

Environmental Hazardous to the aquatic environment — H400 Very toxic to aquatic life.

hazards Acute Hazard, Category 1

Hazardous to the aquatic environment — H411 Toxi

Chronic Hazard, Category 2

Toxic to aquatic life with long lasting effects.

2.2. Label elements

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

Hazard pictograms



Signal word Warning

Contains tris(nonylphenyl) phosphite; Poly[oxy(methyl-1,2-ethanediyl)], .alpha.-methyl-

.omega.-methoxy-

Hazard statements

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P273 Avoid release to the environment.

P280 Wear protective gloves.

Response

P302+P352 IF ON SKIN: Wash with plenty of water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P391 Collect spillage.

Supplemental hazard information

EUH205 Contains epoxy constituents. May produce an allergic reaction.

2.3. Other hazards

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.

3. SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS- No EC- No Index No RRN	%	Classification according to Regulation (EC) No. 1272/2008	Notes
Poly[oxy(methyl-1,2- ethanediyl)], .alpha methylomegamethoxy-	24991-61-5 680-480-1 -	50 - < 100	Skin Sens. 1, H317	
Tetradecyloxirane	7320-37-8 230-786-2	1 - < 10	Skin Irrit. 2, H315 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410	
Tris(methylphenyl) phosphate	1330-78-5 809-930-9 01-2119531335-46- XXXX	0,1 - < 3	Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	
2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4 01-2119565113-46- XXXX	0,1 - < 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	
tris(nonylphenyl) phosphite	26523-78-4 701-028-2 - 01-2119520601-54- XXXX	0,1 - < 1	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	substance listed as REACH Candidate

Full text of H-statements: see section 16

4. SECTION 4: First aid measures

4.1. Description of first aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take

precautions to protect themselves.

Inhalation Remove person to fresh air and keep comfortable for breathing. Get medical

attention if symptoms occur.

Skin contact: Wash skin with plenty of water. Take off contaminated clothing and wash it

before reuse. If skin irritation or rash occurs: Get medical advice/attention.

Eyes contact Rinse immediately with plenty of water. Remove contact lenses, if present and

easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Ingestion Rinse mouth thoroughly. Do NOT induce vomiting. Call a POISON

CENTER/doctor if you feel unwell.

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

Symptoms/effects after skin contact May cause an allergic skin reaction.

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

Treat symptomatically.

5. SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion productsDuring fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Precautionary measures fire Cool containers exposed to heat with water spray and remove container, if no

risk is involved.

Firefighting instructions

Use standard firefighting procedures and consider the hazards of other involved

materials.

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

contained breathing apparatus. Complete protective clothing.

6. SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipmentWear appropriate protective equipment and clothing during clean-up. For further

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

Emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of

spill/leak. Ventilate spillage area. Wear appropriate protective equipment and clothing during clean-up. Local authorities should be advised if significant

spillages cannot be contained.

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 Keep unnecessary personnel away.

Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. Prevent further leakage or spillage if safe to do so. Inform

appropriate managerial or supervisory personnel of all environmental releases.

6.3. Methods and material for containment and cleaning up

For containment Stop leak without risks if possible. Move containers from fire area if it can be

done without personal risk.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled Methods for cleaning up

material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water, Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills in original containers for re-use.

Other information The product is immiscible with water and will spread on the water surface.

Dispose of materials or solid residues at an authorized site.

For further information refer to section 8: "Exposure controls/personal 6.4. Reference to other sections

protection". For disposal of residues refer to section 13: "Disposal

considerations".

7. SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling Ensure good ventilation of the work station. Protect material from direct sunlight.

Avoid contact with skin and eyes. Avoid breathing mist, vapours. Wear personal

protective equipment.

Hygiene measures Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe

good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Store in original tightly closed container. Store in a well-ventilated place. Keep

> cool. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Store away from incompatible materials (see Section 10 of

the SDS).

Compressor oil for air conditioning systems. 7.3. Specific end use(s)

8. SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

United Kingdom

Regulation	Substance	Туре	Value
EH40. HSE	2,6-di-tert-butyl-p-cresol (128-37-0) 2.6-Di-tert-butyl-p-cresol	WEL TWA (OEL TWA) [1]	10 mg/m³

DNEL: Derived no effect level

No data available

Components	Туре	Route	Value	Form
Tris(methylphenyl)	Worker	Dermal	0.41 mg/kg bodyweight/day	Long-term - systemic effects
phosphate (1330-78-5)		Inhalation	0.18 mg/m³	Long-term - systemic effects
	Consumer	Oral	0.02 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	0.03 mg/m³	Long-term - systemic effects
		Dermal	0.15 mg/kg bodyweight/day	Long-term - systemic effects
2,6-di-tert-butyl-p-cresol	Worker	Dermal	0.5 mg/kg bodyweight/day	Long-term - systemic effects
(128-37-0)		Inhalation	3.5 mg/m³	Long-term - systemic effects
	Consumer	Oral	0.25 mg/kg bodyweight/day	Long-term - systemic effects
		Inhalation	0.86 mg/m³	Long-term - systemic effects
		Dermal	0.25 mg/kg bodyweight/day	Long-term - systemic effects
tris(nonylphenyl) phosphite	Worker	Dermal	16.7 mg/kg bodyweight/day	Long-term - systemic effects
(26523-78-4)		Inhalation	23.6 mg/m³	Long-term - systemic effects

	Consumer	Oral Inhalation Dermal	1.67 mg/kg bodyweight/day 11.8 mg/m³ 8.35 mg/kg bodyweight/day	Long-term - systemic effects Long-term - systemic effects Long-term - systemic effects	
PNEC: Predicted no effective No data available	t concentration				
Components	Туре	Route	Value	Form	
Tris(methylphenyl)	Not applicable	Freshwater	0.001 mg/l		
phosphate (1330-78-5)		Freshwater	0.001 mg/l	Intermittent release	
		sediment	2.05 mg/kg dwt	Freshwater	
		sediment	0.205 mg/kg dwt	Seawater	
		Soil	1.01 mg/kg dwt		
		Oral	0.65 mg/kg food	Secondary Poisoning	
		STP	100 mg/l	, ,	
2,6-di-tert-butyl-p-cresol	Not applicable	Freshwater	0.199 µg/L		
(128-37-0)		Seawater	0.02 µg/L		
		Freshwater	1.99 mg/l	Intermittent release	
		sediment	99.6 μg/kg dw	Freshwater	
		sediment	9.96 µg/kg dw	Seawater	
		Soil	47.69 μg/kg		
		Oral	8.33 mg/kg food	Secondary Poisoning	
		STP	0.17 mg/l	, ,	
tris(nonylphenyl) phosphite	Not applicable	Freshwater	50 μg/L		
(26523-78-4)		Seawater	50 μg/L		
		Freshwater	50 mg/l	Intermittent release	
		sediment	0.15 mg/kg dwt	Freshwater	
		sediment	0.15 mg/kg dwt	Seawater	
		Oral	37 mg/kg food	Secondary Poisoning	
		STP	1.8 mg/l		
Exposure controls					
Appropriate engineering controls Materials for protective clothing		Ventilation ra enclosures, la airborne leve been establis Personal pro	tes should be matched to condi- ocal exhaust ventilation, or othe ls below recommended exposu shed, maintain airborne levels to	osen according to the CEN standards	
Individual protection mea	sures, such as pe	rsonal protec	tive equipment (PPE)		
Eye protection		Safety glasse	es with side shields. EN 166.		
Skin protection					
Hand protection		Protective gl	oves.		
Material Pe	rmeation	Thickness (ı	mm) Comments		
Nitrile rubber (NBR) 2 (> 30 minutes)	> 0.3	EN ISO 374		
Other protective mea	Other protective measures		Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.		
Respiratory protection			sufficient ventilation, wear suitable exposure limit is exceeded: EN		

Skin and body protectionWear suitable protective clothing, Long sleeved protective clothingThermal hazard protectionWear appropriate thermal protective clothing, when necessary.

No data available

Environmental exposure controls Avoid release to the environment. Inform appropriate managerial or supervisory

personnel of all environmental releases.

9. SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

 Physical state
 Liquid

 Colour
 Clear.

 Odour
 Characteristic.

 Odour threshold
 No data available

 pH
 No data available

 Relative evaporation rate (butylacetate=1)
 No data available

 Melting point
 Not applicable

 Freezing point
 No data available

Flash point 204 °C

No data available Auto-ignition temperature No data available **Decomposition temperature** Flammability (solid, gas) Not applicable Vapour pressure No data available Relative vapour density at 20 °C No data available Relative density No data available Density 0.9944 g/cm³ Solubility No data available Log Pow No data available Viscosity, kinematic 43.32 mm²/s @ 40°C 9.234 mm²/s @ 100°C

Viscosity, dynamicNo data availableExplosive propertiesNo data availableOxidising propertiesNo data availableExplosive limitsNo data available

9.2. Other information

Boiling point

VOC (EU) Not applicable

10. SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and 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 Contact with incompatible materials. Avoid contact with hot surfaces. Heat. No

flames, no sparks. Eliminate all sources of ignition. None under recommended

storage and handling conditions (see section 7).

10.5. Incompatible materials Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

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

11. SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation	May cause an allergic skin reaction.
Germ cell mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT-single exposure	Based on available data, the classification criteria are not met
STOT-repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met

12. SECTION 12: Ecological information

12.1. Toxicity

Ecology - generalVery toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute)

Substance / Product	Trophic level	Species	Type	Value	Duration	Remarks
Tris(methylphenyl) phosphate (1330-78-5)	Fish	Oncorhync hus mykiss (Rainbow trout)	LC50	0.6 mg/l	96 hours	
	aquatic invertebrates	Daphnia magna	EC50	146 µg/L	48 h	
2,6-di-tert-butyl-p-cresol (128-37-0)	crustacea	Daphnia magna	EC50	0.48 mg/l	48 h	
	Fish	Danio rerio	LC0	> 0.5 mg/l	96 h	
tris(nonylphenyl) phosphite (26523-78-4)	crustacea	Daphnia magna	EC50	0.42 mg/l	48 h	
	crustacea	Daphnia magna	EC50	0.3 mg/L	48 h	
Tetradecyloxirane (7320-37-8)	algae	Pseudokirc hnerella subcapitat a	LC50	0,002 mg/l	72 h	(OECD 209 method)

Hazardous to the aquatic environment, long-term (chronic)

Substance / Product	Trophic level	Species	Type	Value	Duration	Remarks
Tris(methylphenyl) phosphate (1330-78-5)	aquatic invertebrates	Daphnia magna	NOEC	0,1 mg/L	21 d	

12.2. Persistence and degradability

ND-OIL 8

Persistence and degradability	No additional information available.
Tetradecyloxirane (7320-37-8)	
Biodegradation	60 – 70 % (OECD 301B method)

12.3. Bioaccumulative potential

ND-OIL 8

Bioaccumulative potential	No additional information available.

Tris(methylphenyl) phosphate (1330-78-5)

Log Kow 5.11

12.4. Mobility in soil

ND-OIL 8

Ecology - soil No additional information available.

12.5. Results of PBT and vPvB assessment

ND-OIL 8

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

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical

ozone creation potential, endocrine disruption, global warming potential) are

expected from this product.

13. SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) Empty containers or liners may retain some product residues. This material and

its container must be disposed of in a safe manner (see: Disposal instructions).

Dispose of in accordance with local regulations.

Waste treatment methods Collect and reclaim or dispose in sealed containers at licensed waste disposal

site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with licensed collector's sorting

instructions.

Product/Packaging disposal

recommendations

Since emptied containers may retain product residue, follow label warnings even

after container is emptied. Empty containers should be taken for recycling,

recovery or waste in accordance with local regulation.

Additional information Collect and reclaim or dispose in sealed containers at licensed waste disposal

site.

Ecology - waste materialsAvoid discharge into drains, water courses or onto the ground. Avoid release to

the environment.

European List of Waste (LoW) code

The Waste code should be assigned in discussion between

the user, the producer and the waste disposal company.

13 02 08* other engine, gear and lubricating oils

15 01 10* packaging containing residues of or contaminated by

dangerous substances

14. SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR)	3082
UN-No. (IMDG)	3082
UN-No. (IATA)	3082
UN-No. (ADN)	3082
UN-No. (RID)	3082

14.2. UN proper shipping name

Proper Shipping Name (ADR) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Tetradecyloxirane ; 2,6-di-tert-butyl-p-cresol)

Proper Shipping Name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Tetradecyloxirane; 2,6-di-tert-butyl-p-cresol)

Proper Shipping Name (IATA) Environmentally hazardous substance, liquid, n.o.s. (Tetradecyloxirane; 2,6-di-

tert-butyl-p-cresol)

Proper Shipping Name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Tetradecyloxirane; 2,6-di-tert-butyl-p-cresol)

Proper Shipping Name (RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Tetradecyloxirane; 2,6-di-tert-butyl-p-cresol)

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) 9
Danger labels (ADR) 9

IMDG

Transport hazard class(es) (IMDG) 9
Danger labels (IMDG) 9

IATA

Transport hazard class(es) (IATA) 9
Hazard labels (IATA) 9

ADN

Transport hazard class(es) (ADN) 9
Danger labels (ADN) 9

RID

Transport hazard class(es) (RID) 9
Danger labels (RID) 9

14.4. Packing group

Packing group (ADR) III
Packing group (IMDG) III
Packing group (IATA) III
Packing group (ADN) III
Packing group (RID) III

14.5. Environmental hazards

Dangerous for the environment Yes
Marine pollutant Yes

Other information No supplementary information available.

14.6. Special precautions for user

Overland transport

Classification code (ADR) M6

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

Limited quantities (ADR) 5

Packing instructions (ADR) P001, IBC03, LP01, R001

Hazard identification number (Kemler No.) 90
Tunnel restriction code (ADR) EAC code •3Z

Transport by sea

Special provisions (IMDG) 274, 335, 969

Limited quantities (IMDG) 5 L

Packing instructions (IMDG)P001, LP01EmS-No. (Fire)F-AEmS-No. (Spillage)S-F

Α

Stowage category (IMDG)

PCA Excepted quantities (IATA) E1
PCA Limited quantities (IATA) Y964
PCA limited quantity max net quantity 30kgG

(IATA)

Air transport

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

ERG code (IATA) 9L

Inland waterway transport

Classification code (ADN) M6

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

Limited quantities (ADN) 5 L
Carriage permitted (ADN) T

Rail transport

Classification code (RID) M6

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

Limited quantities (RID) 51

Packing instructions (RID) P001, IBC03, LP01, R001

Hazard identification number (RID) 90

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

Not applicable

15. SECTION 15: Regulatory information

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

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006

ND-OIL 8 ; tris(nonylphenyl) phosphite ; Tetradecyloxirane ; Tris(methylphenyl)

phosphate

3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

ND-OIL 8; tris(nonylphenyl) phosphite; 2,6-di-tert-butyl-p-cresol; Tetradecyloxirane; Tris(methylphenyl) phosphate

3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

Contains a substance on the REACH candidate list in concentration \geq 0.1% or with a lower specific limit: Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with \geq 0.1% w/w of 4-nonylphenol, branched and linear (4-NP) (EC 701-028-2, CAS 26523-78-4)

Contains no REACH Annex XIV substances

VOC (EU) Not applicable

Other information, restriction and prohibition regulations

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended. Directive 92/85/EEC on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding as amended. Directive 94/33/EC on the protection of young people at work, as amended. For details, refer to section 3 and 8.

Product code: 4816 GB - en Revision date: 2/26/2021 10/13

Seveso Information

National regulations

No additional information available.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

16. SECTION 16: Other information

Indication of changes

Section 1 - Section 16.

GW/VL

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
AGW	Occupational exposure limit value
ATE	Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)
BAM	Federal Institute for Materials Research and Testing, Germany
BAT	Maximum permissible concentration of biological working substances.
BCF	Bio-concentration factor.
BLV	Biological limit values
BLV	Biological limit values (BGW, Austria)
BMGV	Biological Monitoring Guidance Value (EH40,UK).
BOD5	Biochemical oxygen demand within 5 days
BOD	Biochemical oxygen demand
bw	Body weight.
calcd.	Calculated
CAS	Chemical Abstract Service.
CEN	European Committee for Standardization
CESIO	European Committee on Organic Surfactants and their Intermediates.
COD	Chemical oxygen demand
CLP	Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification labeling and packaging of substances and mixtures.
CMR	Carcinogenic, Mutagenic or Reproduction Toxic Substances
CSA	Chemical safety assessment
CSR	Chemical Safety Report.
DMEL	Derived Minimum Effect Level.
DNEL	Derived no effect level
EAC	European waste catalogue
EC	European community
EC50	Effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances.
ELINCS	European List of Notified Chemical Substances.
EN	European norm.
ERC	ERC (Environmental Release category)
EU	European Union
GLP	Good Laboratory Practice.
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.

Occupational exposure limit value.

GW-kw/VL-cd Occupational exposure limit value - short term. GW-M/VL-M Occupational exposure limit value - "Ceiling". IATA

International Air Transport Association

IBC code International Bulk Chemical (Code) (International Code for the Construction and Equipment of

Ships carrying Dangerous Chemicals in Bulk).

ICAO International Civil Aviation Organization

IC50 Inhibition Concentration 50%.

IECSC Inventory of Existing Chemical Substances in China.

IMDG International Maritime Dangerous Goods **ISO** International Standards Organization.

IUPAC International Union of Pure and Applied Chemistry

LC50 Lethal Concentration 50%.

LCLo Lowest published lethal concentration.

LD50 Lethal Dose 50%.

LOAEL Lowest Observed Adverse Effect Level LOEC Lowest observable effect concentration.

LOEL Lowest observable effect level.

LQ Limited quantities

TRK-Kzw Threshold limit value - Short-term exposure limit / Technical reference concentration - short-

time value, Austria.

MAK-Mow Maximum allowable workplace concentration – instantaneous value, Austria.

MAK-Tmw, TRK-Tmw Maximum allowable workplace concentration - daily mean value / Technical standard

concentration - daily mean value, Austria.

MAK Threshold limit values Germany.

MARPOL International Convention for the Prevention of Pollution from Ships.

NOAEC No-Observed Adverse Effect Concentration

NOAEL No-Observed Adverse Effect Level NOEC No-Observed Effect Concentration

NOEL no-observed-effect level

OECD Organisation for Economic Co-operation and Development

OEL Occupational Exposure Limits PBT Persistent Bioaccumulative Toxic PC (Chemical product PC (Chemical product category)

category)

PNEC Predicted No-Effect Concentration

POCP Photochemical ozone creation potential.

POP Persistent Organic Pollutants PPE Personal protective equipment

Process category Process category

Registration, Evaluation and Authorization of Chemicals (REGULATION (EC) No 1907/2006 **REACH**

concerning Registration, Evaluation Authorization and Restriction of Chemicals).

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

SCL Specific concentration limit. **STEL** Short-term Exposure Limit STP Sewage treatment plant

SU (Sector of use) SU (Sector of use)

SVHC Substance of Very High Concern. TLV Threshold Limit Value

TRGS Technical Rules for Hazardous Substances (German Standard).

TWA Time Weighted Average

UVCB Substances of Unknown or Variable composition, Complex reaction products or Biological

materials

VbF Ordinance on Flammable Liquids, Austria

VOC Volatile organic compounds

vPvB Very Persistent and Very Bioaccumulative

WEL-TWA Workplace Exposure Limit-Long term exposure limit (8-hour TWA(=time weighted

average)reference period).

WEL-STEL Workplace Exposure Limit-Short term exposure limit (15-minute reference period).

Data sources REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND

OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006..

Normal use of this product shall imply use in accordance with the instructions on

the packaging

Full text of H- and EUH-statements

Training advice

Aquatic Acute 1 Hazardous to the aquatic environment — Acute Hazard, Category 1.

Aquatic Chronic 1 Hazardous to the aquatic environment — Chronic Hazard, Category 1.

Aquatic Chronic 2 Hazardous to the aquatic environment — Chronic Hazard, Category 2.

Repr. 2 Reproductive toxicity, Category 2.

Skin Irrit. 2 Skin corrosion/irritation, Category 2.

Skin Sens. 1 Skin sensitisation, Category 1.

H315 Causes skin irritation..

H317 May cause an allergic skin reaction...

H361 Suspected of damaging fertility or the unborn child...

H400 Very toxic to aquatic life...

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

H411 Toxic to aquatic life with long lasting effects..

EUH205 Contains epoxy constituents. May produce an allergic reaction..

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Skin Sens. 1	H317	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 2	H411	Calculation method

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.