Page 1 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 11.12.2017 / 0023 Replacing version dated / version: 02.03.2017 / 0022 Valid from: 11.12.2017 PDF print date: 11.12.2017 Anti-Seize Kupferpaste Art.-Nr. LOS425

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

Anti-Seize Kupferpaste Art.-Nr. LOS425

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

Lubricant

(GB)

Sector of use [SU]:

SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 - Consumer uses: Private households (=general public = consumers)

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category [PC]:

PC24 - Lubricants, greases, release products

Process category [PROC]:

PROC 1 - Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC 2 - Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC 8a - Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

PROC 8b - Transfer of substance or mixture (charging and discharging) at dedicated facilities

PROC 9 - Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC20 - Use of functional fluids in small devices

Article Categories [AC]:

AC99 - Not required.

Environmental Release Category [ERC]:

ERC 4 - Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC 7 - Use of functional fluid at industrial site

ERC 9a - Widespread use of functional fluid (indoor)

ERC 9b - Widespread use of functional fluid (outdoor)

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

œ

EURO-LOCK Vertriebs-GmbH*Nordweststraße 3*D-59387 Ascheberg Phone:+49 (0) 2593 95887-0 Fax:+49 (0) 2593 95887-29

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:

+49 (0) 2593 95887-0 Monday - Thursday 8:00 - 17:00 CET, Friday 8:00 - 13:00 CET

SECTION 2: Hazards identification

2.1 Classification of the substance or mixtureClassification according to Regulation (EC) 1272/2008 (CLP)Hazard classHazard categoryHazard statement

Page 2 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 11.12.2017 / 0023 Replacing version dated / version: 02.03.2017 / 0022 Valid from: 11.12.2017 PDF print date: 11.12.2017

Aquatic Acute1Aquatic Chronic3

GB)

H400-Very toxic to aquatic life. H412-Harmful to aquatic life with long lasting effects.

2.2 Label elements Labeling according to Regulation (EC) 1272/2008 (CLP)



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

P273-Avoid release to the environment. P391-Collect spillage. P501-Dispose of contents / container to special waste collection point.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %). The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a. 3.2 Mixture

Copper	
Registration number (REACH)	
Index	
EINECS, ELINCS, NLP	231-159-6
CAS	7440-50-8
content %	5-10
Classification according to Regulation (EC) 1272/2008 (CLP)	Aquatic Acute 1, H400 (M=10)
	Aquatic Chronic 2, H411
	Acute Tox. 4, H302

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16. The substances named in this section are given with their actual, appropriate classification! For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected! Never pour anything into the mouth of an unconscious person! Inhalation Page 3 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 11.12.2017 / 0023 Replacing version dated / version: 02.03.2017 / 0022 Valid from: 11.12.2017 PDF print date: 11.12.2017

(GB)

Supply person with fresh air and consult doctor according to symptoms. Skin contact Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor. Eye contact Remove contact lenses. Wash thoroughly for several minutes using copious water. Seek medical help if necessary. Ingestion Rinse the mouth thoroughly with water. Do not induce vomiting. Consult doctor immediately. 4.2 Most important symptoms and effects, both acute and delayed Where relevant delayed occuring symptomes and effects will be found in section 11. or at the exposure routes under section 4.1. In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours. With oil mist formation: Irritation of the respiratory tract Headaches Nausea breathing difficulties With long-term contact: reddening of the skin Irritation of the skin. Ingestion: Malaise 4.3 Indication of any immediate medical attention and special treatment needed Symptomatic treatment. SECTION 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing media CO2 Foam Dry extinguisher Unsuitable extinguishing media High volume water jet 5.2 Special hazards arising from the substance or mixture In case of fire the following can develop: Oxides of carbon Toxic gases 5.3 Advice for firefighters In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire Full protection, if necessary. Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient supply of air. Avoid contact with eyes or skin. If applicable, caution - risk of slipping.

6.2 Environmental precautions

If leakage occurs, dam up.

Resolve leaks if this possible without risk. Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

6.3 Methods and material for containment and cleaning up

Page 4 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 11.12.2017 / 0023 Replacing version dated / version: 02.03.2017 / 0022 Valid from: 11.12.2017 PDF print date: 11.12.2017

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13. Or:

Pick up mechanically and dispose of according to Section 13. Fill the absorbed material into lockable containers.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Avoid contact with eyes.

(GB)

Avoid long lasting or intensive contact with skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Do not carry cleaning cloths soaked in product in trouser pockets.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Under all circumstances prevent penetration into the soil.

Protect from direct sunlight and warming. Do not store over 45°C.

Store in a well-ventilated place.

Store cool.

7.3 Specific end use(s)

Industrial processing

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chemical Name	Copper		Content %:5-10			
WEL-TWA: 1 mg/m3 (dusts an	d mists, as Cu)	WEL-STEL: 2 mg/m3 (dusts and mists, as Cu)				
Monitoring procedures:		ISO 15202 (Workplace air - Determination of metals and metall	oids in airborne			
		particulate matter by Inductively Coupled Plasma Atomic Emiss	sion			
		Spectrometry), Part 1-3 - 2000(Part 1), 2001(Part 2), 2004 (Par	t 3) - EU project			
	-	BC/CEN/ENTR/000/2002-16 card 84-1 (2004)				
		MDHS 91 (Metals and metalloids in workplace air by X-ray fluor	rescence			
	-	spectrometry) - 1998 - EU project BC/CEN/ENTR/000/2002-16 card 84-2 (2004)				
	-	NIOSH 7029 (Copper (dust and fume)) - 1994				
	-	NIOSH 7300 (Elements by ICP (nitric/perchloric ashing)) - 2003	3			
	-	NIOSH 7301 (Elements by ICP (aqua regia ashing)) - 2003				
	-	NIOSH 7303 (Elements by ICP (Hot block HCI/HNO3 digestion)) - 2003				
		OSHA ID-121 (Metal and metalloid particulates in workplace at	mospheres			
		(Atomic absorption)) - 2002 - EU project BC/CEN/ENTR/000/2002-16 card 84-10				
	-	(2004)				
		OSHA ID-125G (Metal and metalloid particulates in workplace a	atmospheres			
	(ICP)) - 2002					
		OSHA ID-206 (ICP analysis of metal/metallloid particulates from solder				
	-	operations) - 1991				

Page 5 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 11.12.2017 / 0023 Replacing version dated / version: 02.03.2017 / 0022 Valid from: 11.12.2017 PDF print date: 11.12.2017

BMGV:	Other information:	
Chemical Name	Oil mist, mineral	Content %:
WEL-TWA: 5 mg/m3 (ACGIH)	WEL-STEL: 10 mg/m3 (ACGIH)	
Monitoring procedures:	 Draeger - Oil 10/a-P (67 28 371) 	
	- Draeger - Oil Mist 1/a (67 33 031)	
BMGV:	Other information:	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).

(8) = Inhalable fraction (2017/164/EU). (9) = Respirable fraction (2017/164/EU). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).

(8) = Inhalable fraction (2017/164/EU). (9) = Respirable fraction (2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.2 Exposure controls

(GB)

Copper									
Area of application	Exposure route / Environmental compartment	Effect on health	Descrip tor	Value	Unit	Note			
	Environment - freshwater		PNEC	7,8	µg/l				
	Environment - marine		PNEC	5,2	µg/l				
	Environment - sediment, freshwater		PNEC	87	mg/kg dry weight				
	Environment - sediment, marine		PNEC	676	mg/kg dry weight				
	Environment - soil		PNEC	65,5	mg/kg dry weight				
	Environment - sewage treatment plant		PNEC	230	µg/l				

8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and nonmetrological investigative techniques.

These are specified by e.g. BS EN 14042.

BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Page 6 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 11.12.2017 / 0023 Replacing version dated / version: 02.03.2017 / 0022 Valid from: 11.12.2017 PDF print date: 11.12.2017

With danger of contact with eyes. Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection: Protective nitrile gloves (EN 374) Minimum layer thickness in mm: >= 0,38 Permeation time (penetration time) in minutes: > 480

The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time. Protective hand cream recommended.

Skin protection - Other: Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection: Normally not necessary. With oil mist formation: Filter A P2 (EN 14387), code colour brown, white Observe wearing time limitations for respiratory protection equipment.

Thermal hazards: Not applicable

GB

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Paste, solid.
Colour:	Copper
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	Not determined
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
Flash point:	>150 °C
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined
Vapour pressure:	Not determined
Vapour density (air = 1):	Not determined
Density:	<1 g/cm3 (25°C)
Bulk density:	n.a.
Solubility(ies):	Not determined
Water solubility:	Insoluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	Not determined
Explosive properties:	Product is not explosive.

Page 7 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 11.12.2017 / 0023 Replacing version dated / version: 02.03.2017 / 0022 Valid from: 11.12.2017 PDF print date: 11.12.2017

Oxidising properties: 9.2 Other information

Miscibility: Fat solubility / solvent: Conductivity: Surface tension: Solvents content:

(GB)

No

Not determined Not determined Not determined Not determined Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity

The product has not been tested. **10.2 Chemical stability** Stable with proper storage and handling. **10.3 Possibility of hazardous reactions** No dangerous reactions are known. **10.4 Conditions to avoid** Heating **10.5 Incompatible materials** Avoid contact with strong oxidizing agents. **10.6 Hazardous decomposition products** No decomposition when used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

Anti-Seize Kupferpaste ArtNr. LOS426						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	ATE	3239	mg/kg			calculated value
Acute toxicity, by dermal						n.d.a.
route:						
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye						n.d.a.
damage/irritation:						
Respiratory or skin						n.d.a.
sensitisation:						
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity -						n.d.a.
single exposure (STOT-SE):						
Specific target organ toxicity -						n.d.a.
repeated exposure (STOT-						
RE):						
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Copper								
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes		
Acute toxicity, by oral route:	LD50	>300	mg/kg	Rat				

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification). Megol Kupferpaste 400 g Art.-Nr. 6351

Page 8 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 11.12.2017 / 0023 Replacing version dated / version: 02.03.2017 / 0022 Valid from: 11.12.2017 PDF print date: 11.12.2017

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to							n.d.a.
daphnia:							
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and							Isolate as
degradability:							much as
							possible with
							an oil separator.
12.3. Bioaccumulative							n.d.a.
potential:							
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT							n.d.a.
and vPvB assessment							
12.6. Other adverse							n.d.a.
effects:							

Copper							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50		0,0087	mg/l	Pimephales promelas		
12.1. Toxicity to daphnia:	NOEC/NOEL	24h	0,004	mg/l	Daphnia magna		
12.1. Toxicity to daphnia:	EC50	48h	0,03	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	0,0426- 0,0535	mg/l	Pseudokirchnerie Ila subcapitata		

SECTION 13: Disposal considerations

13.1 Waste treatment methods For the substance / mixture / residual amounts

EC disposal code no.:

œ

The waste codes not. The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU) 13 08 99 wastes not otherwise specified Recommendation: Sewage disposal shall be discouraged. Pay attention to local and national official regulations. E.g. dispose at suitable refuse site. E.g. suitable incineration plant. **For contaminated packing material** Pay attention to local and national official regulations. Empty container completely. Uncontaminated packaging can be recycled. Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

General statements 14.1. UN number: Transport by road/by rail (ADR/RID)	3077
14.2. UN proper shipping name:	
UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SC	LID, N.O.S. (COPPER)
14.3. Transport hazard class(es):	9
14.4. Packing group:	III
Classification code:	M7
LQ:	5 kg
14.5. Environmental hazards:	environmentally hazardous



Page 9 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 11.12.2017 / 0023 Replacing version dated / version: 02.03.2017 / 0022 Valid from: 11.12.2017 PDF print date: 11.12.2017

Tunnel restriction code:	-	
Transport by sea (IMDG-code)		
14.2. UN proper shipping name:		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOL	ID, N.O.S. (COPPER)	afhs
14.3. Transport hazard class(es):	9	
14.4. Packing group:	III	× v
EmS:	F-A, S-F	
Marine Pollutant:	Yes	~
14.5. Environmental hazards:	environmentally hazardous	
Transport by air (IATA)		
14.2. UN proper shipping name:		
Environmentally hazardous substance, solid, n.o.s. (COF	PER)	ፈት
14.3. Transport hazard class(es):	9	Amp
14.4. Packing group:	III	3
14.5. Environmental hazards:	environmentally hazardous	< <u>1</u>
14.6. Special precautions for user		\checkmark
Persons employed in transporting dangerous goods mus	t be trained.	
All persons involved in transporting must observe safety	regulations.	
Precautions must be taken to prevent damage.	-	
14.7. Transport in bulk according to Annex	II of MARPOL and the IBC Code	
Freighted as packaged goods rather than in bulk, therefo		
Minimum amount regulations have not been taken into a		
Danger code and packing code on request.		
Comply with special provisions.		
SECTION 1	5: Regulatory information	

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

Observe restrictions:

(GB)

Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

Hazard categories	Notes to Annex I	Qualifying quantity (tonnes) of	Qualifying quantity (tonnes) of
		dangerous substances as	dangerous substances as
		referred to in Article 3(10) for	referred to in Article 3(10) for
		the application of - Lower-tier	the application of - Upper-tier
		requirements	requirements
E1		100	200

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections:

2, 3, 4, 5, 7, 8, 11, 12, 13, 14, 15

Employee training in handling dangerous goods is required. These details refer to the product as it is delivered. Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):



Page 10 of 12

GB

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 11.12.2017 / 0023 Replacing version dated / version: 02.03.2017 / 0022 Valid from: 11.12.2017 PDF print date: 11.12.2017

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Aquatic Acute 1, H400	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H302 Harmful if swallowed. H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Aquatic Acute — Hazardous to the aquatic environment - acute Aquatic Chronic — Hazardous to the aquatic environment - chronic Acute Tox. — Acute toxicity - oral

Any abbreviations and acronyms used in this document:

AC Article Categories acc., acc. to according, according to ACGIHAmerican Conference of Governmental Industrial Hygienists Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement ADR concerning the International Carriage of Dangerous Goods by Road) AOEL Acceptable Operator Exposure Level AOX Adsorbable organic halogen compounds approximately approx. Art., Art. no. Article number ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP) BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany) BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany) BCF **Bioconcentration factor** BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation) BHT Butylhydroxytoluol (= 2,6-Di-t-butyl-4-methyl-phenol) BMGV Biological monitoring guidance value (EH40, UK) BOD Biochemical oxygen demand BSEF Bromine Science and Environmental Forum body weight bw CAS **Chemical Abstracts Service** CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques CIPAC Collaborative International Pesticides Analytical Council Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of CLP substances and mixtures) CMR carcinogenic, mutagenic, reproductive toxic COD Chemical oxygen demand CTFA Cosmetic, Toiletry, and Fragrance Association DMEL Derived Minimum Effect Level DNEL Derived No Effect Level DOC Dissolved organic carbon DT50 Dwell Time - 50% reduction of start concentration Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes) DVS dry weight dw e.g. for example (abbreviation of Latin 'exempli gratia'), for instance EC European Community ECHA European Chemicals Agency EEA European Economic Area EEC European Economic Community EINECS European Inventory of Existing Commercial Chemical Substances **ELINCS** European List of Notified Chemical Substances EN **European Norms** EPA United States Environmental Protection Agency (United States of America)

Page 11 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 11.12.2017 / 0023 Replacing version dated / version: 02.03.2017 / 0022 Valid from: 11.12.2017 PDF print date: 11.12.2017

(GB)

ERC **Environmental Release Categories** ES Exposure scenario etc. et cetera EU European Union EWC European Waste Catalogue Fax. Fax number den. general GHS Globally Harmonized System of Classification and Labelling of Chemicals GWP Global warming potential HET-CAM Hen's Egg Test - Chorionallantoic Membrane HGWP Halocarbon Global Warming Potential IARC International Agency for Research on Cancer International Air Transport Association ΙΑΤΑ Intermediate Bulk Container IBC IBC (Code) International Bulk Chemical (Code) IC Inhibitory concentration IMDG-code International Maritime Code for Dangerous Goods incl. including, inclusive IUCLIDInternational Uniform ChemicaL Information Database lethal concentration LC LC50 lethal concentration 50 percent kill LCLo lowest published lethal concentration Lethal Dose of a chemical LD LD50 Lethal Dose, 50% kill LDLo Lethal Dose Low LOAELLowest Observed Adverse Effect Level LOEC Lowest Observed Effect Concentration LOEL Lowest Observed Effect Level Limited Quantities LQ MARPOL International Convention for the Prevention of Marine Pollution from Ships not applicable n.a. n.av. not available not checked n.c. n.d.a. no data available NIOSHNational Institute of Occupational Safety and Health (United States of America) NOAEC No Observed Adverse Effective Concentration No Observed Adverse Effect Level NOAEL NOEC No Observed Effect Concentration NOEL No Observed Effect Level ODP Ozone Depletion Potential OECD Organisation for Economic Co-operation and Development organic org. PAH polycyclic aromatic hydrocarbon PBT persistent, bioaccumulative and toxic PC Chemical product category Polyethylene PE PNEC Predicted No Effect Concentration POCP Photochemical ozone creation potential ppm parts per million **PROC Process category** PTFE Polytetrafluorethylene REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals) 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical REACH-IT List-No. identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT. RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail) SADT Self-Accelerating Decomposition Temperature SAR Structure Activity Relationship SU Sector of use SVHC Substances of Very High Concern Tel. Telephone

Page 12 of 12 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II Revision date / version: 11.12.2017 / 0023 Replacing version dated / version: 02.03.2017 / 0022 Valid from: 11.12.2017 PDF print date: 11.12.2017

ThOD Theoretical oxygen demand TOC Total organic carbon TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances) **UN RTDG** United Nations Recommendations on the Transport of Dangerous Goods VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria)) VOC Volatile organic compounds vPvB very persistent and very bioaccumulative WEL-TWA, WEL-STEL 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) (EH40, UK). WHO World Health Organization wet weight wwt

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge. No responsibility.

These statements were made by:

(GB)

Chemical Check GmbH, Chemical Check Platz 1-7, D-32839 Steinheim, Tel.: +49 5233 94 17 0, Fax: +49 5233 94 17 90

© by Chemical Check GmbH Gefahrstoffberatung. The copying or changing of this document is forbidden except with consent of the Chemical Check GmbH Gefahrstoffberatung.