

0102200		
Version 1.2	Revision Date 23.06.2016	Print Date 23.06.2016
1. Identification of the substa	ince/mixture and of the company/u	ndertaking
1.1 Product identifier		
Product name	: OKS 2200	
1.2 Relevant identified uses of t	he substance or mixture and uses adv	ised against
Use of the Substance/Mixture	: Anticorrosion additive	
Recommended restrictions on use	: Restricted to professional users.	
1.3 Details of the supplier of the	safety data sheet	
	OKS Spezialschmierstoffe GmbH Ganghoferstr. 47 D-82216 Maisach-Gernlinden Tel.: +49 8142 3051 500 Fax.: +49 8142 3051 599	
E-mail address Responsible/issuing person	: mcm@oks-germany.com	
National contact	:	
1.4 Emergency telephone numb	er	
	+49 8142 3051 517	

+49 8142 3051 517

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Additional Labelling:

EUH210 Safety data sheet available on request. EUH208 Contains: 1,2-benzisothiazol-3(2H)-oneMay produce an allergic reaction.

2.3 Other hazards

3. Composition/information on ingredients

3.2 Mixtures



Version 1.2

Revision Date 23.06.2016

Print Date 23.06.2016

Chemical nature : Aqueous emulsion

Hazardous components

Chemical Name	CAS-No. EC-No. Index-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
oleic acid	112-80-1 204-007-1	Xi; R38	Skin Irrit. 2; H315	>= 1 - < 5
2,2',2"-nitrilotriethanol	102-71-6 203-049-8		Eye Irrit. 2; H319	>= 3 - < 10
N-(3-aminopropyl)-N- dodecylpropane-1,3- diamine	2372-82-9 219-145-8	Xn; R48/22 C; R35 N; R50	Acute Tox. 3; H301 Skin Corr. 1A; H314 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0.25
WEL substance :				
Paraffin waxes and Hydrocarbon waxes	8002-74-2 232-315-6			< 10

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1 Description of first aid measures

If inhaled	:	Remove person to fresh air. If signs/symptoms continue, get medical attention. Keep patient warm and at rest. If unconscious place in recovery position and seek medical advice. Keep respiratory tract clear. If breathing is irregular or stopped, administer artificial respiration.
In case of skin contact	:	Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. Get medical attention immediately if irritation develops and persists. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	If eye irritation persists, consult a specialist. Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
If swallowed	:	If unconscious place in recovery position and seek medical



Version 1.2	Revision Date 23.06.2016	Print Date 23.06.2016
	advice. Keep respiratory tract clear. Never give anything by mouth to an uno Get medical attention if symptoms occu	
	: Move the victim to fresh air.	
	: Rinse mouth with water.	
4.2 Most important symptoms an	d effects, both acute and delayed	
Symptoms	: No information available.	
Risks	: None known.	
4.3 Indication of any immediate n	nedical attention and special treatment n	eeded
Treatment	: No information available.	
5. Firefighting measures		
5.1 Extinguishing media		
Suitable extinguishing media	: Use extinguishing measures that are an circumstances and the surrounding env	
Unsuitable extinguishing media	: none	
5.2 Special hazards arising from	the substance or mixture	
Specific hazards during firefighting	: Fire may cause evolution of: Carbon oxides Nitrogen oxides (NOx)	
5.3 Advice for firefighters		
Special protective equipment for firefighters	 In the event of fire, wear self-contained Use personal protective equipment. In the case of respirable dust and/or fur breathing apparatus. Exposure to decomposition products manual health. 	nes, use self-contained

Further information : St	tandard procedure for chemical fires.
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6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

: Evacuate personnel to safe areas.
Use personal protective equipment.
Ensure adequate ventilation.
Do not breathe vapours or spray mist.
Refer to protective measures listed in sections 7 and 8.





Version 1.2	Revision Date 23.06.2016	Print Date 23.06.2016
6.2 Environmental precautions		
Environmental precautions	 Try to prevent the material from entrocourses. Prevent further leakage or spillage i Local authorities should be advised cannot be contained. 	f safe to do so.
6.3 Methods and materials for o	containment and cleaning up	
Methods for cleaning up	: Contain spillage, and then collect w	

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

For personal protection see section 8.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	 Do not breathe vapours or spray mist. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Wash hands and face before breaks and immediately after handling the product. Do not get in eyes or mouth or on skin. Do not get on skin or clothing. Do not get on skin or clothing. Do not repack. Do not repack. Do not re-use empty containers. These safety instructions also apply to empty packaging which may still contain product residues.
	may still contain product residues. Keep container closed when not in use. Avoid inhalation of vapour or mist.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	 Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. To maintain product quality, do not store in heat or direct sunlight. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.
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7.3 Specific end use(s)

: Consult the technical guidelines for the use of this substance/mixture.



Version 1.2

Revision Date 23.06.2016

Print Date 23.06.2016

8. Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value type	Control parameters	Update	Basis
Paraffin waxes and Hydrocarbon waxes	8002-74-2	TWA	2 mg/m3	2011-12-01	GB EH40
Further information:	48: The word 'fume' is often used to include gases and vapours. This is not the case for exposure limits where 'fume' should normally be applied to solid particles generated by chemical reactions or condensed from the gaseous state, usually after volatilisation from melted substances. The generation of fume is often accompanied by a chemical reaction such as oxidation or thermal breakdown.				
Paraffin waxes and Hydrocarbon waxes	8002-74-2	STEL	6 mg/m3	2011-12-01	GB EH40
Further information:	48: The word 'fume' is often used to include gases and vapours. This is not the case for exposure limits where 'fume' should normally be applied to solid particles generated by chemical reactions or condensed from the gaseous state, usually after volatilisation from melted substances. The generation of fume is often accompanied by a chemical reaction such as oxidation or thermal breakdown.				

8.2 Exposure controls

Engineering measures

Maintain air concentrations below occupational exposure standards.

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment.

Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).

Personal protective equipment

Respiratory protection	: Not required; except in case of aerosol formation. Filter type A-P
Hand protection	 For prolonged or repeated contact use protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. In case of contact through splashing:
	: butvl-rubber

Protective index Class 1



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Version 1.2	Revision Date 23.06.2016	Print Date 23.06.2016	
Eye protection	: Safety glasses with side-shields conf	forming to EN166	
Hygiene measures	: Wash face, hands and any exposed handling.	 Wash face, hands and any exposed skin thoroughly after handling. 	
Protective measures	 The type of protective equipment mu to the concentration and amount of th at the specific workplace. Choose body protection in relation to concentration and amount of dangere the specific work-place. 	he dangerous substance	
Environmental exposure	e controls		
General advice	courses. Prevent further leakage or spillage if	 Try to prevent the material from entering drains or water courses. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages 	

cannot be contained.

9. Physical and chemical properties

9.1 Information on basic phy Appearance	ysical and chemical properties : liquid
Colour	: yellow
Odour	: characteristic
Odour Threshold	: No data available
рН	: No data available
Melting point/range	: No data available
Boiling point/boiling range	: 100 °C
Flash point	: 191 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	∶ < 0.01 hPa, 20 °C
Relative vapour density	: No data available
Density	: 0.92 g/cm3, 20 °C
Water solubility	: No data available
Solubility in other solvents	: No data available
Partition coefficient: n- octanol/water	: No data available
Auto-ignition temperature	: No data available



Version 1.2	Revision Date 23.06.2016	Print Date 23.06.2016
Ignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Explosive properties	: Not explosive	
Oxidizing properties	: No data available	
9.2 Other information		
Sublimation point	: No data available	
Bulk density	: No data available	
Bulk density	: No data available	
ability and reactivity		

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	: No dangerous reaction known under conditions of normal use.
10.4 Conditions to avoid	
Conditions to avoid	: No conditions to be specially mentioned.
10.5 Incompatible materials	
Materials to avoid	: No materials to be especially mentioned.
10.6 Hazardous decomposition p	roducts
Hazardous decomposition products	: No decomposition if stored and applied as directed.

11. Toxicological information

11.1 Information on toxicological effects

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Product
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Acute oral toxicity	:	This information is not available.
Acute inhalation toxicity	:	This information is not available.
Acute dermal toxicity	:	This information is not available.
Skin corrosion/irritation	:	This information is not available.
Serious eye damage/eye irritation	:	This information is not available.
Respiratory or skin sensitisation	:	This information is not available.
Germ cell mutagenicity		

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006 - GB





LS 2200			
sion 1.2		Revision Date 23.06.2016	Print Date 23.06.2016
Genotoxicity in vitro	:	No data available	
Genotoxicity in vivo	:	No data available	
Carcinogenicity	:	No data available	
Reproductive toxicity	:	No data available	
Teratogenicity	:	No data available	
Repeated dose toxicity	:	This information is not available.	
Aspiration toxicity	:	This information is not available.	
Further information		Information given is based on data on the components and the toxicology of similar products.	
Components: oleic acid :			
Acute oral toxicity	:	LD50: 74,000 mg/kg, Rat	
Acute dermal toxicity	:	Redness, Local irritation	
Skin corrosion/irritation	:	Result: Irritating to skin.	
	:	Irritating to skin.	
Further information		Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.	
2,2',2"-nitrilotriethanol : Acute oral toxicity	:	LD50 Oral: > 2,000 mg/kg, Rat	
Acute dermal toxicity	:	LD50 Dermal: > 2,000 mg/kg, Rabbit	
Serious eye damage/eye irritation	:	Irritating to eyes.	
Further information		Information given is based on data c the toxicology of similar products.	on the components and
N-(3-aminopropyl)-N-dodec Acute oral toxicity		p ane-1,3-diamine : LD50 Oral: 261 mg/kg, Rat, OECD 1	est Guideline 401
	:	Toxic if swallowed.	
	:	Pain, Stomach/intestinal disorders	
Acute inhalation toxicity		Risk of delayed pulmonary oedema., Effects of breathing high concentrations of vapour may include:, Irritating to respiratory system.	
Acute dermal toxicity	:	Blistering, Redness	
Skin corrosion/irritation	:	Result: Causes severe burns.	
	:	Causes skin burns.	
Serious eye damage/eye irritation	:	Result: No eye irritation	
	:	Acute eye irritation/corrosion, Cause	es eye burns.
STOT - repeated exposure		Assessment: May cause damage to or repeated exposure.	organs through prolonged
STOT - repeated exposure	:	Assessment: May cause damage to	



Version 1.2	Revision Date 23.06.2016	Print Date 23.06.2016
Further information	: Ingestion causes burns of the upper digest tracts.	tive and respiratory

12. Ecological information

12.1 Toxicity

Product:	
Toxicity to fish	:
Toxicity to daphnia and other	No data available
aquatic invertebrates Toxicity to algae	No data available
, ,	No data available
Toxicity to bacteria	: No data available

Components:

oleic acid :

Toxicity to fish	: LC50: 205 mg/l, 96 h, Pimephales promelas (fathead minnow)
2,2',2"-nitrilotriethanol :	
Toxicity to fish	: LC50: > 100 mg/l, 96 h, Lepomis macrochirus (Bluegill sunfish)

Toxicity to daphnia and other	: EC50: > 100 mg/l, 24 h, Daphnia magna (Water flea)
aquatic invertebrates	

Toxicity to algae: EC50: > 100 mg/l, 72 h, Desmodesmus subspicatus
(green algae)

N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine :

Toxicity to fish	: LC50: 0.45 mg/l, 96 h, Oncorhynchus mykiss (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates Toxicity to algae	 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. : EC50: 0.073 mg/l, 48 h, Daphnia magna (Water flea) : EbC50: 0.012 mg/l, 72 h, Desmodesmus subspicatus (green algae), OECD Test Guideline 201
M-Factor Ecotoxicology Assessment	: 10
Acute aquatic toxicity	: Very toxic to aquatic life.

12.2 Persistence and degradability



OKS 2200		
Version 1.2	Revision Date 23.06.2016	Print Date 23.06.2016
Product:		
Biodegradability Physico-chemical	: No data available : No data available	
removability Components:		
2,2',2"-nitrilotriethanol :		
Biodegradability	: > 70 %, Result: Biodegradable, Expo Test Guideline 302B	sure time: 14 d, OECD
	 < 60 %, Result: Not readily biodegrad d, OECD Test Guideline 301D 	lable., Exposure time: 30
12.3 Bioaccumulative potential		
Product:		
Bioaccumulation	:	
	This mixture contains no substance c persistent, bioaccumulating and toxic contains no substance considered to very bioaccumulating (vPvB).	(PBT)., This mixture
12.4 Mobility in soil	, , ,	
Product:		
Mobility Distribution among environmental compartments 12.5 Results of PBT and vPvB as	: No data available : No data available	
12.6 Other adverse effects		
Product:		
Additional ecological information	: No information on ecology is available	е.
Components: N-(3-aminopropyl)-N-dodecy Additional ecological information	 <i>Ipropane-1,3-diamine :</i> Very toxic to aquatic organisms, may effects in the aquatic environment., V 	
13. Disposal considerations		
13.1 Waste treatment methods		
Product	: The product should not be allowed to courses or the soil.	enter drains, water
	: Waste codes should be assigned by application for which the product was	
Contaminated packaging	: Empty containers can be landfilled, w the local regulations.	hen in accordance with



Version 1.2

Revision Date 23.06.2016

Print Date 23.06.2016

14. Transport information

14.1 UN number

ADR Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

14.2 Proper shipping name

ADR Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

14.3 Transport hazard class

ADR Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

14.4 Packing group

ADR Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

14.5 Environmental hazards

ADR Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

14.6 Special precautions for user

No special precautions required.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

 Remarks
 : Not applicable for product as supplied.

15. Regulatory information

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



Version 1.2	Revision Date 23.06.2016	Print Date 23.06.2016
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: This product does not contain substa concern (Regulation (EC) No 1907/20	
Major Accident Hazard Legislation	: 96/82/EC Update: 2003 Directive 96/82/EC does not apply	

15.2 Chemical Safety Assessment

This information is not available.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

R35	Causes severe burns.
R38	Irritating to skin.
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50	Very toxic to aquatic organisms.

Full text of H-Statements referred to under sections 2 and 3.

H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Further information

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