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

1.1 Product identifier				
Product name	:	STABURAGS NBU 12		
Article-No.	:	017052		
1.2 Relevant identified uses of the substance or mixture and uses advised against				
Use of the Sub- stance/Mixture	:	Grease		
Recommended restrictions on use	:	Restricted to professional users.		
1.2 Details of the sumplier of the		intu data ahaat		

1.3 Details of the supplier of the safety data sheet

Company	:	Klüber Lubrication München Geisenhausenerstr. 7 81379 München Deutschland Tel: +49 (0) 89 7876 0 Fax: +49 (0) 89 7876 333 info@klueber.com
E-mail address of person responsible for the SDS	:	mcm@klueber.com Material Compliance Management
National contact	:	Klüber Lubrication Great Britain Limited Unit 10 Pennine Business Park Longbow Close Huddersfield West Yorkshire HD2 1GQ Great Britain Tel: +44-1422-205115 Fax: +44-1422-206073 sales@uk.klueber.com

1.4 Emergency telephone number

Emergency telephone num- : +49 89 7876 700 (24 hrs) ber

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.



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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 pin-2(3)-ene. May produce an allergic reaction.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

5

3.2 Mixtures

Chemical nature

Mineral oil. barium complex soap

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration limits M-Factor Notes	Concentration (% w/w)
pin-2(3)-ene	80-56-8 201-291-9 01-2119519223-49- XXXX	Flam. Liq.3; H226 Acute Tox.4; H302 Skin Irrit.2; H315 Skin Sens.1; H317 Asp. Tox.1; H304 Aquatic Acute1; H400 Aquatic Chronic1; H410	M-Factor: 1/1	>= 0.1 - < 0.25

For explanation of abbreviations see section 16.

SECTION 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 respira-



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		tion.	
In ca	se of skin contact	 Take off all contaminated clothi Wash off immediately with soap Get medical attention immediat persists. Wash clothing before reuse. Thoroughly clean shoes before 	and plenty of water. ely if irritation develops and
In ca	se of eye contact	: Rinse immediately with plenty of for at least 10 minutes. If eye irritation persists, consult	-
If swa	allowed	 Move the victim to fresh air. If unconscious, place in recover advice. Keep respiratory tract clear. Do not induce vomiting without Never give anything by mouth t 	medical advice.
4.2 Most	important symptom	s and effects, both acute and delayed	I
Symp	otoms	: Allergic appearance	
Risks	3	: May cause an allergic skin read	tion.
4.3 Indica	tion of any immedi	ate medical attention and special trea	tment needed
Treat	ment	: The first aid procedure should b with the doctor responsible for i	

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	:	High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-	:	Fire may cause evolution of:
fighting		Carbon oxides
		Metal oxides
		Nitrogen oxides (NOx)

5.3 Advice for firefighters

Special protective equipment	:	In the event of fire, wear self-contained breathing apparatus.
for firefighters		Use personal protective equipment. Exposure to decomposi-
		tion products may be a hazard to health.



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Further information : Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective	e equipment and emergency procedures
Personal precautions :	Evacuate personnel to safe areas. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Do not breathe vapours, aerosols. Refer to protective measures listed in sections 7 and 8.
6.2 Environmental precautions	
Environmental precautions :	Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Clean up promptly by sweeping or vacuum.
		Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not get in eyes or mouth or on skin. Do not get on skin or clothing. Do not ingest. Do not repack. These safety instructions also apply to empty packaging which may still contain product residues. Keep container closed when not in use.	Advice on safe handling : Avoid contact with skin and eyes. For personal protection see section 8. Persons with a history of skin sensitisation problems or asth- ma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Smoking, eating and drinking should be prohibited in the ap- plication area.
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Hygie	ene measures	:	Wash face, hands and any exposed handling.	skin thoroughly after
7.2 Condi	tions for safe storage	e, inc	luding any incompatibilities	
	irements for storage and containers	:	Store in original container. Keep con use. Keep in a dry, cool and well-ver which are opened must be carefully to prevent leakage. Store in accorda national regulations. Keep in properl	ntilated place. Containers resealed and kept upright nce with the particular
•	f ic end use(s) ific use(s)	:	Specific instructions for handling, no	t required.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
distillates (petroleum), hydrotreated heavy paraffinic	Workers	Inhalation	Long-term local ef- fects	5.6 mg/m3
bis(4-(1,1,3,3- tetramethyl- butyl)phenyl)amine	Workers	Inhalation	Long-term systemic effects	4.11 mg/m3
	Workers	Skin contact	Long-term systemic effects	1.17 mg/kg bw/day
pin-2(3)-ene	Workers	Inhalation	Long-term systemic effects	3.8 mg/m3
	Workers	Skin contact	Long-term systemic effects	0.54 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
distillates (petroleum), hy-	Oral	9.33 mg/kg
drotreated heavy paraffinic		
bis(4-(1,1,3,3-	Fresh water	0.00002 µg/l
tetramethylbutyl)phenyl)amine		
	Marine water	0.000002 µg/l
	Fresh water sediment	0.00467 mg/kg
	Marine sediment	0.000467 mg/kg
	Soil	0.000934 mg/kg
pin-2(3)-ene	Fresh water	0.000606 mg/l
	Marine water	0.000061 mg/l
	Microbiological Activity in Sewage Treat-	0.2 mg/l



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		ment Systems		
		Fresh water sediment	0.157 mg/kg	
		Marine sediment	0.0157 mg/kg	
		Soil	0.0317 mg/kg	
		Oral	8.76 mg/kg	
		Urai	8.76 mg/kg	

8.2 Exposure controls

Engineering measures none	
Personal protective equipmen	t
Eye protection :	Tightly fitting safety goggles
Hand protection Material : Break through time : Protective index :	Nitrile rubber > 10 min Class 1
Remarks :	Wear protective gloves. 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. The selected protective gloves have to satisfy the specifica- tions of Regulation (EU) 2016/425 and the standard EN 374 derived from it.
Respiratory protection :	Not required; except in case of aerosol formation.
Filter type :	Filter type P
Protective measures :	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Choose body protection in relation to its type, to the concen- tration and amount of dangerous substances, and to the spe- cific work-place.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	paste
Colour	:	brown
Odour	:	characteristic
Odour Threshold	:	No data available



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þ	Hc		:	No data available	
Ν	Melting	point/range	:	No data available	
E	Boiling	point/boiling range	:	No data available	
F	Flash p	point	:	Not applicable	
E	Evapor	ration rate	:	No data available	
F	Flamm	ability (solid, gas)	:	Combustible Solids	
		explosion limit / Upper ability limit	:	No data available	
		explosion limit / Lower ability limit	· :	No data available	
١	Vapour	r pressure	:	< 0.001 hPa (20 °C)	
F	Relativ	e vapour density	:	No data available	
[Density	<i>y</i>	:	0.99 g/cm3 (20 °C)	
E	Bulk de	ensity	:	No data available	
S		ity(ies) ter solubility	:	insoluble	
	Solu	ubility in other solvents	3 :	No data available	
		n coefficient: n- I/water	:	No data available	
A	Auto-ig	nition temperature	:	No data available	
C	Decom	position temperature	:	No data available	
١	Viscosi Visc	ity cosity, dynamic	:	No data available	
	Viso	cosity, kinematic	:	No data available	
E	Explosi	ive properties	:	Not explosive	
C	Oxidizi	ng properties	:	No data available	
		nformation			
5	Sublim	ation point	:	No data available	



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Self-iq	gnition	: No data available	
SECTION	I 10: Stability and	reactivity	
10.1 Reac	tivity		
No ha	azards to be specially	mentioned.	
10.2 Chen	nical stability		
Stable	e under normal cond	tions.	
10.3 Poss	ibility of hazardous	reactions	
	rdous reactions		n under conditions of normal use.
10.4 Cond	litions to avoid		
Condi	itions to avoid	: No conditions to be specially	mentioned.
10.5 Incor	npatible materials		
Mater	ials to avoid	: No materials to be especially	mentioned.
	rdous decomposition of stored	on products I and applied as directed.	

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity		
Product:		
Acute oral toxicity	:	Remarks: This information is not available.
Acute inhalation toxicity	:	Remarks: This information is not available.
Acute dermal toxicity	:	Symptoms: Redness, Local irritation
Components:		
pin-2(3)-ene:		
Acute oral toxicity	:	LD50 (Rat): > 500 mg/kg Method: OECD Test Guideline 423 GLP: yes
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes Assessment: The substance or mixture has no acute dermal



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			toxicity	
Skin	corrosion/irritation			
<u>Produ</u>	uct:			
Rema		:	This information is not available.	
<u>Comp</u>	oonents:			
pin-2	(3)-ene:			
Speci	es	:	Human	
	sment	:	Irritating to skin.	
Resul	t	:	Irritating to skin.	
Serio	us eye damage/eye	e irrita	tion	
<u>Produ</u>	<u>uct:</u>			
Rema	ırks	:	This information is not available.	
<u>Comp</u>	oonents:			
pin-2	(3)-ene:			
Speci	es	:	Human	
	ssment	:	No eye irritation	
Resul	t	:	No eye irritation	
Respi	iratory or skin sen	sitisati	ion	
<u>Produ</u>	uct:			
Rema	ırks	:	This information is not available.	
<u>Comp</u>	oonents:			
pin-2	(3)-ene:			
	sment	:	May cause sensitisation by skin contact	
Resul	t	:	May cause sensitisation by skin contact	t.
Germ	cell mutagenicity			
<u>Produ</u>	uct:			
Geno	toxicity in vitro	:	Remarks: No data available	
Genot	toxicity in vivo	:	Remarks: No data available	
Carci	nogenicity			
Drad				
Produ Rema		:	No data available	



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Repro	oductive toxicity			
Prod	uct:			
Effect	ts on fertility	:	Remarks: No data available	
Effect ment	ts on foetal develop-	:	Remarks: No data available	
Repe	ated dose toxicity			
Prod	uct:			
Rema	arks	:	This information is not available.	
Aspir	ration toxicity			
Prod	uct:			
This i	nformation is not avai	lable.		
<u>Com</u>	ponents:			
pin-2	(3)-ene:			
May b	be fatal if swallowed a	nd en	ers airways.	
Furth	er information			
Prod	uct:			
Rema	arks	:	Information given is based on data of the toxicology of similar products.	on the components and

SECTION 12: Ecological information

12.1 Toxicity

Product:		
Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available
Toxicity to microorganisms	:	Remarks: No data available



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<u>Con</u>	nponents:			
-	2(3)-ene: icity to fish	:	LC50 (Danio rerio (zebra fish)): 0.30 Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes	-
	city to daphnia and other atic invertebrates		EC50 (Daphnia magna (Water flea) Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202 GLP: yes): 0.475 mg/l
M-F icity	actor (Acute aquatic tox-)	:	1	
M-F toxic	actor (Chronic aquatic city)	:	1	
12.2 Per	sistence and degradabi	lity		
	<u>duct:</u> legradability	:	Remarks: No data available	
Phy ity	sico-chemical removabil-	:	Remarks: No data available	
Con	nponents:			
-	2(3)-ene: legradability	:	Test Type: aerobic Inoculum: activated sludge Result: rapidly biodegradable Biodegradation: 68 % Exposure time: 28 d Method: OECD Test Guideline 3011 GLP: yes	D
12.3 Bio	accumulative potential			
	duct: accumulation	:	Remarks: This mixture contains no be persistent, bioaccumulating and This mixture contains no substance persistent and very bioaccumulating	toxic (PBT). considered to be very
Con	nponents:			
pin-	2(3)-ene:			
			11 / 16	a brand of FREUDENBERG

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	tion coefficient: n- nol/water	:	log Pow: 4.48 (25 °C) Method: OECD Test Guideline 107			
12.4 Mob	ility in soil					
Prod	uct:					
Mobi		:	Remarks: No data available			
Distribution among environ- mental compartments		:	Remarks: No data available			
12.5 Results of PBT and vPvB assessment						
Prod	uct:					
	ssment	:	This substance/mixture contains no co to be either persistent, bioaccumulativ very persistent and very bioaccumulat 0.1% or higher	e and toxic (PBT), or		
12.6 Othe	er adverse effects					
Prod Addit matic	ional ecological infor-	:	No information on ecology is available			

SECTION 13: Disposal considerations

13.1 Waste treatment methods	
Product :	The product should not be allowed to enter drains, water courses or the soil. Do not dispose of with domestic refuse. Dispose of as hazardous waste in compliance with local and national regulations.
	Waste codes should be assigned by the user based on the application for which the product was used.
Contaminated packaging :	Packaging that is not properly emptied must be disposed of as the unused product. Dispose of waste product or used containers according to local regulations.
	The following Waste Codes are only suggestions:
Waste Code :	used product, unused product 12 01 12*, spent waxes and fats
	uncleaned packagings



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15 01 10, packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.3 Transport hazard class(es)		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.4 Packing group		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA (Cargo)	:	Not regulated as a dangerous good
IATA (Passenger)	:	Not regulated as a dangerous good
14.5 Environmental hazards		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA (Passenger)	:	Not regulated as a dangerous good
IATA (Cargo)	:	Not regulated as a dangerous good
14.6 Special precautions for use Not applicable	r	
14.7 Transport in bulk according	to	Annex II of Marpol and the IBC Code
Remarks	:	Not applicable for product as supplied.



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SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	This product does not contain sub- stances of very high concern (Regu- lation (EC) No 1907/2006 (REACH), Article 57).
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	:	Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)	:	Not applicable
Seveso III: Directive 2012/18/EU of the European Parlian major-accident hazards involving dangerous substances. Not applicable		t and of the Council on the control of

Volatile organic compounds	:	Directive 2010/75/EU of 24 November 2010 on industrial
		emissions (integrated pollution prevention and control)
		Volatile organic compounds (VOC) content: 0.31 %

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Full text of H-Statements

H302:Harmful if swallowed.H304:May be fatal if swallowed and enters airways.H315:Causes skin irritation.H317:May cause an allergic skin reaction.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations



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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: AICS - Australian Inventory of Chemical Substances: ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China: IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances: (Q)SAR - (Quantitative) Structure Activity Relationship: REACH - Regulation (EC) No. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

This safety data sheet applies only to products as originally packed and labelled. The information contained therein may not be reproduced or modified without our express written permission. Any forwarding of this document is only permitted to the extent required by law. Any further, in particular public, dissemination of the safety data sheet (e.g. as a document for download from the Internet) is not permitted without our express written consent. We provide our customers with amended safety data sheets as prescribed by law. The customer is responsible for passing on safety data sheets and any amendments contained therein to its own customers, employees and other users of the product. We provide no guarantee that safety data sheets received by users from third parties are up-to-date. All information and instructions in this safety data sheet have been compiled to the best of our knowledge and are based on the information available to us on the day of publication. The information provided is intended to describe the product in relation to the required safety measures; it is neither an assurance of characteristics nor a guarantee of the product's suitability for particular applications and does not justify any contractual legal relationship. The existence of a safety data sheet for a particular jurisdiction does not necessarily mean that import or use within that jurisdiction is legally permitted. If you have any questions, please contact your responsible sales contact or authorized trading partner.



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