

Version	Revision Date:	Date of last issue: 2022-12-08	
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1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	OKS 420 高温多用途润滑脂				
Chemical nature	:	Mineral oil. polyurea				
Manufacturer or supplier's details						
Company name of supplier		OKS Spezialschmierstoffe GmbH				

	Company name of supplier	:	OKS Spezialschmierstoffe GmbH Ganghoferstr. 47 82216 Maisach-Gernlinden Deutschland Tel.: +49 8142 3051 500 Fax: +49 8142 3051 599 info@oks-germany.com		
	E-mail address of person responsible for the SDS	:	mcm@oks-germany.com		
	National contact	:			
	Emergency telephone number	:	+86 532 8388 9090 (NRCC, only for hazardous chemicals) +86 21 69225521		
Recommended use of the chemical and restrictions on use					
	Recommended use	:	Grease		
	Restrictions on use	:	Restricted to professional users.		

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance	: paste
Colour	: beige
Odour	: characteristic
May cause an allergic s	in reaction.

GHS Classification

Skin sensitisation : Category 1

GHS label elements





OKS 420 高温多用途润滑脂 Version Revision Date: Date of last issue: 2022-12-08 3.1 2024-06-26 Date of first issue: 2014-03-20 Print Date: 2024-06-26 Hazard pictograms Signal word 1 Warning Hazard statements : H317 May cause an allergic skin reaction. Precautionary statements 2 **Prevention:** P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves. **Response:** P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse. Disposal: P501 Dispose of contents/containers according the local government requirements. Physical and chemical hazards Not classified based on available information. **Health hazards** May cause an allergic skin reaction. **Environmental hazards** Not classified based on available information.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Polyurea	1266545-64-5	>= 10 -< 20
4-ethyl-2-(8-heptadecenyl)-2-oxazoline-4- methanol	68140-98-7	>= 0.25 -< 1





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phos	Molybdenum, bis[O,O-bis(2-ethylhexyl) phosphorodithioatokappa.S,.kappa.S']dioxodi- .muthioxodi-, (Mo-Mo)72030-25-2 >= 0.25 -< 1				
4. FIRST	AID MEASURES				
lf inh	aled	:	medical attenti Keep patient w If unconscious advice. Keep respirato	on. /arm and at rest. , place in recovery ry tract clear.	ns/symptoms continue, get position and seek medical d, administer artificial
In ca	se of skin contact	:	Wash off imme Get medical at persists. Wash clothing	tention immediatel	and plenty of water. y if irritation develops and
In ca	se of eye contact	:	for at least 10		water, also under the eyelids, specialist.
If sw	If swallowed :		Move the victim to fresh air. If unconscious, place in recovery position and seek medical advice. Keep respiratory tract clear. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.		
	t important symptom effects, both acute a yed			allergic skin reaction known or expected	
Note	s to physician	:	Treat symptom	natically.	

5. FIREFIGHTING MEASURES

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





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р	roducts		Nitrogen oxides (NOx) Oxides of phosphorus Metal oxides
	pecific extinguishing nethods	:	Standard procedure for chemical fires.
	Special protective equipment for firefighters		In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Evacuate personnel to safe areas. Ensure adequate ventilation. Do not breathe vapours, aerosols. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	:	Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Pick up and transfer to properly labelled containers.

7. HANDLING AND STORAGE

Handling

Advice on safe handling	:	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 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.
Avoidance of contact	:	No materials to be especially mentioned.





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Storage

Conditions for safe storage :	Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. 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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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Residual oils (petroleum), hydrotreated	64742-57-0	TWA (Inhalable particulate matter)	5 mg/m3	ACGIH (2013-03-01)

Engineering measures : none

Personal protective equipment

Respiratory protection	:	Not required; except in case of aerosol formation.
Filter type	:	Filter type P
Eye/face protection	:	Safety glasses
Skin and body protection	:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
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.
Protective measures	:	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.





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Hygie	ene measures	: Wash face, hands and any exposed skin thoroughly handling.
. PHYSIC	CAL AND CHEMIC	PROPERTIES
Appe	arance	: paste
Colou	ır	: beige
Odou	r	: characteristic
Odou	r Threshold	: No data available
рН		: Not applicable substance/mixture is non-soluble (in water)
Meltir	ng point/range	: No data available
Boilin	g point/boiling rang	: No data available
Flash	point	: Not applicable
Evapo	oration rate	: No data available
Flamr	mability (solid, gas)	: Combustible Solids
Self-i	gnition	: No data available
	r explosion limit / U nability limit	er : No data available
	r explosion limit / Lo nability limit	rer : No data available
Vapo	ur pressure	: < 0.001 hPa (20 °C)
Relati	ive vapour density	: No data available
Relati	ive density	: 0.900 (20 °C) Reference substance: Water The value is calculated





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Density	:	0.90 g/cm3 (20 °C)
Bulk density	:	No data available
Solubility(ies) Water solubility	:	insoluble
Solubility in other solvents	:	No data available
Partition coefficient: n- octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	No data available
Sublimation point	:	No data available
Particle size	:	Not applicable

10. STABILITY AND REACTIVITY

Reactivity	:	No hazards to be specially mentioned.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	No conditions to be specially mentioned.
Incompatible materials	:	No materials to be especially mentioned.
Hazardous decomposition products	:	No decomposition if stored and applied as directed.





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11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Product: Acute oral toxicity :	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Acute inhalation toxicity :	Remarks: This information is not available.
Acute dermal toxicity :	Symptoms: Redness, Local irritation
	Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method
Components:	
Polyurea:	
Acute oral toxicity :	LD50 (Rat): > 2,000 mg/kg Method: Directive 67/548/EEC, Annex V, B.1. GLP: yes
Acute dermal toxicity :	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 GLP: yes
1 othyl 2 (9 hontodoconyl) 2 o	vazalina 4-mathanali
4-ethyl-2-(8-heptadecenyl)-2-o Acute oral toxicity :	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 423 GLP: yes Assessment: The substance or mixture has no acute oral toxicity
Molybdenum, bis[O,O-bis(2-etl .muthioxodi-, (Mo-Mo):	nylhexyl) phosphorodithioatokappa.S,.kappa.S']dioxodi-
Acute dermal toxicity :	Symptoms: Redness, Local irritation





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Skin corrosion/irritation

Product:

Remarks

: This information is not available.

Components:

Polyurea:

Species	:	Rabbit
Assessment	:	No skin irritation
Method	:	OECD Test Guideline 404
Result	:	No skin irritation
GLP	:	yes

4-ethyl-2-(8-heptadecenyl)-2-oxazoline-4-methanol:

Species	:	human skin
Assessment	:	No skin irritation
Result	:	No skin irritation

Molybdenum, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-.kappa.S,.kappa.S']dioxodi-.mu.-thioxodi-, (Mo-Mo):

Assessment	:	Irritating to skin.
Result	:	Irritating to skin.

Remarks : Irritating to skin.

Serious eye damage/eye irritation

Product:

Remarks

: This information is not available.

Components:

Polyurea:

Species	: Rabbit
Result	: No eye irritation
Assessment	: No eye irritation
Method	: OECD Test Guideline 405
GLP	: yes





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4-ethyl-2-(8-heptadecenyl)-2-oxazoline-4-methanol:

Result	:	No eye irritation
Assessment	:	No eye irritation

Molybdenum, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-.kappa.S,.kappa.S']dioxodi-.mu.-thioxodi-, (Mo-Mo):

Result	:	No eye irritation
Assessment	:	No eye irritation

Respiratory or skin sensitisation

Product:

Remarks	
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: This information is not available.

Components:

Polyurea:

Test Type	:	Maximisation Test
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.
GLP	:	yes

4-ethyl-2-(8-heptadecenyl)-2-oxazoline-4-methanol:

Assessment	:	The product is a skin sensitiser, sub-category 1A.
Result	:	The product is a skin sensitiser, sub-category 1A.

Molybdenum, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-.kappa.S,.kappa.S']dioxodi-.mu.-thioxodi-, (Mo-Mo):

Assessment	:	The product is a skin sensitiser, sub-category 1B.
Result	:	The product is a skin sensitiser, sub-category 1B.

Germ cell mutagenicity

Product:

Genotoxicity in vitro	:	Remarks: No data available
Genotoxicity in vivo	:	Remarks: No data available





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Components: Polyurea: Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro **Result:** negative Carcinogenicity Product: Remarks : No data available **Reproductive toxicity** Product: Remarks: No data available Effects on fertility 2 Effects on foetal : Remarks: No data available development STOT - single exposure Product: Remarks : No data available STOT - repeated exposure Product: Remarks : No data available **Repeated dose toxicity** Product: Remarks : This information is not available. Aspiration toxicity Product: This information is not available.





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Further information

Product:

Remarks

: Information given is based on data on the components and the toxicology of similar products.

Components:

Molybdenum, bis[O,O-bis(2 .muthioxodi-, (Mo-Mo):	-ethylhexyl) phosphorodithioatokappa.S,.kappa.S']dioxodi-
Remarks	 Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish

Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available

2

Toxicity to algae/aquatic plants	:	Remarks: No data available
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	Toxicity to microorganisms	:	Remarks: No data available
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Components:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203
		GLP: yes

Toxicity to daphnia and other:EC50 (Daphnia magna (Water flea)): > 100 mg/laquatic invertebratesExposure time: 48 h





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			Test Type: Immobilization Method: OECD Test Guideline 202 GLP: yes
Toxic plant	city to algae/aquat s	ic :	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201 GLP: yes
Toxi	city to microorgani	sms :	EC50 (Bacteria): > 1,000 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209 GLP: yes
4-eth	nyl-2-(8-heptadec	enyl)-2-o	xazoline-4-methanol:
Toxi	city to daphnia and tic invertebrates		
Toxic plant	city to algae/aquat s	ic :	EC50 (Desmodesmus subspicatus (green algae)): 65.6 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
	/bdenum, bis[O,C -thioxodi-, (Mo-M		hylhexyl) phosphorodithioatokappa.S,.kappa.S']dioxodi-
	city to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Test Type: semi-static test Method: OECD Test Guideline 203 GLP: yes
			Remarks: May cause long-term adverse effects in the aquatic environment.
	city to daphnia and tic invertebrates	l other :	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test





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		Method: OECD Test Guideline 202 GLP: yes
Toxic plant	city to algae/aquat s	ic : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
Pers	istence and degr	radability
<u>Prod</u> Biode	luct: egradability	: Remarks: No data available
	ico-chemical ovability	: Remarks: No data available
<u>Com</u>	ponents:	
Poly	urea:	
Biod	egradability	 Primary biodegradation Inoculum: activated sludge Result: Not rapidly biodegradable Biodegradation: 10 % Exposure time: 28 d Method: OECD Test Guideline 301F GLP: yes
4-eth	nyl-2-(8-heptadec	enyl)-2-oxazoline-4-methanol:
Biode	egradability	 Result: Not rapidly biodegradable Biodegradation: 34.73 % Method: OECD Test Guideline 301B
	/bdenum, bis[O,0 -thioxodi-, (Mo-M	D-bis(2-ethylhexyl) phosphorodithioatokappa.S,.kappa.S']dioxodi- lo):
	egradability	 Result: Not rapidly biodegradable Biodegradation: 11 % Exposure time: 28 d Method: OECD Test Guideline 301B





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Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

Polyurea:

Partition coefficient: n- : log Pow: > 6 octanol/water

4-ethyl-2-(8-heptadecenyl)-2-oxazoline-4-methanol:

Partition coefficient: n- : log Pow: 3.42 (20 °C) octanol/water

Molybdenum, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-.kappa.S,.kappa.S']dioxodi-.mu.-thioxodi-, (Mo-Mo):

Partition coefficient: n-	:	log Pow: > 4
octanol/water		

Mobility in soil

Product:		
Mobility	:	Remarks: No data available
Distribution among environmental compartments	:	Remarks: No data available

Other adverse effects

Product:		
Additional ecological information	:	No information on ecology is available.

Components:

4-ethyl-2-(8-heptadecenyl)-2-oxazoline-4-methanol:

Results of PBT and vPvB	:	Non-classified vPvB substance Non-classified PBT substance
assessment		

Molybdenum, bis[0,0-bis(2-ethylhexyl) phosphorodithioato-.kappa.S,.kappa.S']dioxodi-.mu.-thioxodi-, (Mo-Mo):

Additional ecological	:	May cause long lasting harmful effects to aquatic life.
information		





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13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	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.
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.

14. TRANSPORT INFORMATION

UNRTDG

IAT A-DGRUN/ID No.:Not applicableProper shipping name:Not applicableClass:Not applicableSubsidiary risk:Not applicablePacking group:Not applicableLabels:Not applicablePacking instruction (cargo:Not applicableaircraft):Not applicablePacking instruction (cargo:Not applicable(passenger aircraft):Not applicableIMDG-Code:UN numberUN number:Not applicableProper shipping name:Not applicableClass:Not applicableSubsidiary risk:Not applicablePacking group:Not applicableEmS Code:Not applicableMarine pollutant:Not applicable	UN number Proper shipping name Class Subsidiary risk Packing group Labels	 Not applicable 	Not appl Not appl Not appl Not appl	le le le le
UN number:Not applicableProper shipping name:Not applicableClass:Not applicableSubsidiary risk:Not applicablePacking group:Not applicableLabels:Not applicableEmS Code:Not applicable	UN/ID No. Proper shipping name Class Subsidiary risk Packing group Labels Packing instruction (cargo aircraft) Packing instruction	 Not applicable 	 Not app 	le le le le le
	UN number Proper shipping name Class Subsidiary risk Packing group Labels EmS Code	 Not applicable 	 Not app 	le le le le le





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

Not applicable for product as supplied.

National Regulations

GB 6944/12268

UN number	:	Not applicable
Proper shipping name	:	Not applicable
Class	:	Not applicable
Subsidiary risk	:	Not applicable
Packing group	:	Not applicable
Labels	:	Not applicable

Special precautions for user

Not applicable

15. REGULATORY INFORMATION

National regulatory information Law on the Prevention and Control of Occupational Diseases

Regulations on Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals	:	Not applicable
Hazardous Chemicals for Priority Management under SAWS	:	Not applicable
Regulation of Environmental Management on the Fi and Export of Toxic Chemicals	rst	Import of Chemicals and the Import
China Severely Restricted Toxic Chemicals (2023)	:	Not applicable
International Regulations		
Montreal Protocol	:	Not applicable
Rotterdam Convention (Prior Informed Consent)	:	Not applicable
Stockholm Convention (Persistent Organic Pollutants)	:	Not applicable

The components of this product are reported in the following inventories:

IECSC : On the inventory, or in compliance with the inventory





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16. OTHER INFORMATION

Date format

: yyyy/mm/dd

Full text of other abbreviations

ACGIH

: USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA : 8-hour, time-weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation: DSL - Domestic Substances List (Canada): 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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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.

