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# **OKS 661**

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#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : OKS 661

Manufacturer or supplier's c	Manufacturer or supplier's details							
Company name of supplier	:	OKS Spezialschmierstoffe GmbH Ganghoferstr. 47 D-82216 Maisach-Gernlinden 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 Material Compliance Management						
Emergency telephone number	:	+7 495 628 1687 +49 8142 3051 517						
Recommended use of the chemical and restrictions on use								
Recommended use	:	Lubricant spray						
Restrictions on use	:	Restricted to professional users.						

#### 2. HAZARDS IDENTIFICATION

GHS Classification (According to GOST 32423, GOST 32424 and GOST 32425)         Aerosols       : Category 1						
Skin sensitisation	:	Category 1				
GHS-Labelling (According to Hazard pictograms	5 G(	OST 31340)				
Signal word	:	Danger				
Hazard statements	:	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H317 May cause an allergic skin reaction.				
Precautionary statements	:	<b>Prevention:</b> P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition source.				



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P251 Do not pierce or burn, even after use.P261 Avoid breathing mist.P280 Wear protective gloves.

#### Storage:

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

# Other hazards which do not result in classification

None known.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

 Pure substance/mixture
 : Mixture

 Chemical nature
 : Active substance with propellant Ethanol Perfumes

water

#### Components

Chemical name	Concentration (% w/w)	Occupational Exposure Limits		CAS-No.	EC-No.
		MAC value mg/m3 / TSEL value	Hazard Class		
ethanol	>= 30 - < 50	MPC-TWA: 1.000 mg/m3 Data Source: RU OEL	4	64-17-5	200-578-6
		MPC-STEL: 2.000 mg/m3 Data Source: RU OEL	4		
isobutane	>= 20 - < 30	No data available		75-28-5	200-857-2
propane	>= 1 - < 10	No data available		74-98-6	200-827-9
1-methoxy-2-propanol	>= 1 - < 10	No data available		107-98-2	203-539-1
pentane-2,4-dione	>= 1 - < 10	No data available		123-54-6	204-634-0
methyl salicylate	>= 1 - < 10	MPC-STEL: 1	2, +	119-36-8	204-317-7







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			mg/m3 Data Source: RU OEL			
cinn	amaldehyde	>= 0,1 - < 1	TSEL: 3 mg/m3 Data Source: RU TSEL	104-55-2	203-213-9	

#### 4. FIRST AID MEASURES

If inhaled	:	Obtain medical attention. 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	:	Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. If eye irritation persists, consult a specialist.
If swallowed	:	Move the victim to fresh air. Keep respiratory tract clear. Do NOT induce vomiting. Obtain medical attention. Rinse mouth with water.
Most important symptoms and effects, both acute and delayed	:	Causes skin irritation. May cause an allergic skin reaction. Inhalation may provoke the following symptoms: Unconsciousness Dizziness Drowsiness Headache Nausea Tiredness Allergic appearance
Notes to physician	:	The first aid procedure should be established in consultation



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with the doctor responsible for industrial medicine. Treat symptomatically.

#### **5. FIREFIGHTING MEASURES**

Flammable properties		
Flash point	:	-104 °C Method: Abel-Pensky
Ignition temperature	:	No data available
Upper explosion limit / Upper flammability limit	:	15 %(V)
Lower explosion limit / Lower flammability limit	:	1,4 %(V)
Flammability (solid, gas)	:	Not applicable
Suitable extinguishing media	:	ABC powder
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	Fire Hazard Do not let product enter drains. Contains gas under pressure; may explode if heated. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Hazardous combustion products	:	Carbon oxides
Further information	:	Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Cool containers/tanks with water spray.
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,	:	Evacuate personnel to safe areas.
protective equipment and		Ensure adequate ventilation.
emergency procedures		Remove all sources of ignition.
		Do not breathe vapours or spray mist.





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			Refer to protective measures list Only qualified personnel equippe equipment may intervene.	
Environm	nental precautions	:	Do not allow contact with soil, su Prevent further leakage or spillar Local authorities should be advis cannot be contained.	ge if safe to do so.
	and materials for ent and cleaning up	:	Contain spillage, and then collect absorbent material, (e.g. sand, evermiculite) and place in contain local / national regulations (see s Keep in suitable, closed contained Non-sparking tools should be us	earth, diatomaceous earth, er for disposal according to section 13). ers for disposal.
7. HANDLING	AND STORAGE			
Advice or	n safe handling	:	Do not use in areas without adea Do not breathe vapours or spray In case of insufficient ventilation, equipment. Avoid contact with skin and eyes For personal protection see sect Keep away from fire, sparks and Persons with a history of skin se asthma, allergies, chronic or rec should not be employed in any p being used. Smoking, eating and drinking sh application area. Wash hands and face before bre handling the product. Do not get in eyes or mouth or o Do not get on skin or clothing. Do not use sparking tools. These safety instructions also ap may still contain product residue Pressurized container: protect fr expose to temperatures exceedi burn, even after use.	mist. , wear suitable respiratory s. lion 8. I heated surfaces. Insitisation problems or urrent respiratory disease process in which this mixture i ould be prohibited in the eaks and immediately after on skin.
Conditior	ns for safe storage	:	BEWARE: Aerosol is pressurize exposure and temperatures over or throw into fire even after use. red-hot objects. Store in accordance with the par	r 50 °C. Do not open by force Do not spray on flames or
			Protect from frost.	



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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	Data Source		
ethanol	64-17-5	MPC-TWA (vapour and/or gas)	1.000 mg/m3	RU OEL (2021-02-03)		
	Further infor	mation: Class 4 -				
		MPC-STEL (vapour and/or gas)	2.000 mg/m3	RU OEL (2021-02-03)		
	Further infor	mation: Class 4 -	Low hazard			
1-methoxy-2-propanol	107-98-2	TWA	100 ppm 375 mg/m3	2000/39/EC (2000-06-16)		
		STEL	150 ppm 568 mg/m3	2000/39/EC (2000-06-16)		
methyl salicylate	119-36-8	MPC-STEL (mixture of vapour and aerosol)	1 mg/m3	RU OEL (2021-02-03)		
		Further information: Class 2 - Highly dangerous, Substances which require special skin and eye protection				
cinnamaldehyde	104-55-2	TSEL (vapour and/or gas)	3 mg/m3	RU TSEL (2021-02-03)		
Engineering measures	ventilation. Handle only	<ul> <li>Use only in an area equipped with explosion proof exhaust ventilation.</li> <li>Handle only in a place equipped with local exhaust (or other appropriate exhaust).</li> </ul>				
Personal protective equip	ment					
Respiratory protection	ventilation is	s provided or exp	less adequate local osure assessment o ommended exposu	demonstrates		
Filter type	: Type A					
Hand protection Material Break through time Protective index	: Nitrile rubbe : > 10 min : Class 1	Pr				
Remarks	break throug	gh time depends	ontact use protective amongst other thing ne type of glove and	gs on the		





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		has to be measured for ea	ach case.
Eye p	protection	: Safety glasses with side-s	hields
Skin	and body protection	: Choose body protection in concentration and amount the specific work-place.	relation to its type, to the of dangerous substances, and to
Prote	ective measures		ipment must be selected according mount of the dangerous substance
Hygie	ene measures	: Wash face, hands and any handling.	y exposed skin thoroughly after

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	aerosol
Colour	:	yellow
Odour	:	characteristic
Odour Threshold	:	No data available
рН	:	6 (20 °C) Concentration: 100 %
Melting point/range	:	No data available
Boiling point/boiling range	:	-42 °C (1.013 hPa)
Flash point	:	-104 °C
		Method: Abel-Pensky
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	not auto-flammable
Upper explosion limit / Upper flammability limit	:	15 %(V)



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	er explosion limit / Lower nability limit	r:	1,4 %(V)	
Vapo	our pressure	:	No data available	
Relat	tive vapour density	:	No data available	
Rela	tive density	:	0,75 (20 °C) Reference substance: Water The value is calculated	
Dens	sity	:	0,75 g/cm3 (20 °C)	
Bulk	density	:	No data available	
	bility(ies) /ater solubility	:	soluble	
S	olubility in other solvents	s :	No data available	
	tion coefficient: n- nol/water	:	No data available	
Auto	-ignition temperature	:	No data available	
Deco	mposition temperature	:	No data available	
Visco V	osity iscosity, dynamic	:	No data available	
V	iscosity, kinematic	:	< 21,5 mm2/s ( 40 °C) Not applicable	
Explo	osive properties	:	Not explosive	
Oxid	izing properties	:	No data available	
Subli	mation point	:	No data available	
Meta	l corrosion rate	:	Not corrosive to metals	

## **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.





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Cond	itions to avoid	:	Heat, flames and sparks. Strong sunlight for prolonged per Risk of receptacle bursting.	iods.
Incon	npatible materials	:	Oxidizing agents	
Haza produ	rdous decomposition ucts	:	No decomposition if stored and a	pplied as directed.
1. TOXIC		ATION		
Acute	e toxicity			
Prod	uct:			
Acute	e oral toxicity		Acute toxicity estimate: > 5.000 m Method: Calculation method	g/kg
Acute	e inhalation toxicity		Symptoms: Inhalation may provok Respiratory disorder	te the following symptoms
Acute	e dermal toxicity	:	Symptoms: Redness, Local irritati	on
Com	ponents:			
ethar	nol:			
Acute	e oral toxicity		LD50 (Rat): 10.470 mg/kg Method: OECD Test Guideline 40	1
Acute	e inhalation toxicity		LC50 (Rat): 124,7 mg/l	
			Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 40	3
				~
isobu	utane:			
Acute	e inhalation toxicity		LC50 (Rat): 658 mg/l Exposure time: 4 h Test atmosphere: gas	
	thoxy-2-propanol:			
ACUIE	e oral toxicity	÷	LD50 Oral (Rat): 7.120 mg/kg	
penta	ane-2,4-dione:			
•	•			



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Acute	oral toxicity	:	Assessment: The component/mix single ingestion.	ture is moderately toxic after
meth	yl salicylate:			
Acute	oral toxicity	:	Assessment: The component/mix single ingestion.	ture is moderately toxic after
cinna	maldehyde:			
Acute	dermal toxicity	:	Assessment: The component/mix single contact with skin.	ture is moderately toxic after
Skin	corrosion/irritation			
Produ				
Rema	irks	÷	Irritating to skin.	
<u>Comp</u>	oonents:			
ethan				
Speci Asses	es ssment	:	Rabbit No skin irritation	
Metho	bd	:	OECD Test Guideline 404	
Resul	t	:	No skin irritation	
cinna	maldehyde:			
Resul	t	:	Skin irritation	
Serio	us eye damage/eye	e irritati	on	
<u>Produ</u>	uct:			
Rema	ırks	:	Irritating to eyes.	
<u>Comp</u>	oonents:			
ethan	ol:			
Speci		:	Rabbit	
Resul		:	Irritating to eyes.	
Asses	sment	:	Irritating to eyes.	



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<b>cinna</b> Resul	amaldehyde: It	:	Eye irritation	
Resp	iratory or skin sen	sitisatio	ı	
Prod	uct:			
Rema	arks	:	This information is not available.	
<u>Com</u>	ponents:			
ethar	nol:			
Speci			Mouse	
Asses Metho	ssment		Does not cause skin sensitisation. OECD Test Guideline 429	
Resul			Does not cause skin sensitisation.	
	maldehyde:			
Resu	lt	:	May cause sensitisation by skin co	ntact.
Germ	cell mutagenicity			
Prod	uct:			
Geno	toxicity in vitro	:	Remarks: No data available	
0				
Geno	toxicity in vivo	:	Remarks: No data available	
<u>Com</u>	ponents:			
ethar	nol:			
Geno	toxicity in vitro		Test Type: Ames test	
			Metabolic activation: with and witho	
			Method: OECD Test Guideline 471 Result: negative	
0	,,			
Geno	toxicity in vivo		Test Type: In vivo micronucleus tes Species: Mouse	St
			Result: negative	
Cara	nogonicity			
	nogenicity			
Prod	uct:			



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Rema	ırks	:	No data available	
Repro	oductive toxicity			
<u>Produ</u>	<u>uct:</u>			
Effect	s on fertility	:	Remarks: No data available	
	s on foetal opment	:	Remarks: No data available	
STOT	- single exposure			
<u>Comp</u>	oonents:			
<b>ethan</b> Asses	ol: osment	:	The substance or mixture is not o organ toxicant, single exposure.	lassified as specific target
	<b>hoxy-2-propanol:</b> ssment	:	May cause drowsiness or dizzine	SS.
STOT	- repeated exposur	e		
<u>Comp</u>	oonents:			
ethan	ol:			
	sment	:	The substance or mixture is not or organ toxicant, repeated exposur	
Repea	ated dose toxicity			
<u>Produ</u>	<u>ict:</u>			
Rema	rks	:	This information is not available.	
Comp	oonents:			
ethan	ol:			
Specie	es	:	Rat, female	
	-1	:	1.730 mg/kg	
NOAE			Oral	
Applic	cation Route	:	Oral 90 d	



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#### Aspiration toxicity

## Product:

This information is not available.

#### Components:

ethanol:

No aspiration toxicity classification

:

#### **Further information**

Product:

Remarks

Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance. Possible risk of irreversible effects.

#### **12. ECOLOGICAL INFORMATION**

Ecotoxicity			
<u>Product:</u> Toxicity to fish	:	Remarks: Harmful to aquatic organia adverse effects in the aquatic enviro	
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	
Components:			
ethanol: Toxicity to fish	:	LC50 (Pimephales promelas (fathea Exposure time: 96 h	ad minnow)): 3.220 mg/l
Toxicity to daphnia and other	:	EC50 (Daphnia magna (Water flea))	): > 10.000 mg/l
		12 / 01	a brand of



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a	quatic invertebrates		Exposure time: 48 h	
	oxicity to algae/aquatic lants	:	EC50 (Chlorella vulgaris (Fresh wat Exposure time: 72 h Method: OECD Test Guideline 201	er algae)): 275 mg/l
a	oxicity to daphnia and other quatic invertebrates Chronic toxicity)	:	NOEC (Daphnia magna (Water flea) Exposure time: 48 d	)): 6.300 mg/l
Р	ersistence and degradabi	lity		
<u>P</u>	roduct:			
В	iodegradability	:	Remarks: No data available	
	hysico-chemical emovability	:	Remarks: No data available	
<u>C</u>	omponents:			
e	thanol:			
В	iodegradability	:	aerobic Result: Readily biodegradable. Testing period: 28 d Kinetic: 28 d: 97 % Method: OECD Test Guideline 301E	3
1.	-methoxy-2-propanol:			
В	iodegradability	:	Result: rapidly biodegradable	
В	ioaccumulative potential			
	roduct:			
	ioaccumulation	:	Remarks: This mixture contains no s be persistent, bioaccumulating and This mixture contains no substance persistent and very bioaccumulating	toxic (PBT). considered to be very
<u>C</u>	omponents:			
e	thanol:			
В	ioaccumulation	:	Bioconcentration factor (BCF): 3,2 Remarks: Due to the distribution coe	efficient n-octanol/water,



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				accumulation in organisms is not expecte	d.			
	Partitio octanol	n coefficient: n- /water	:	log Pow: -0,35 (20 °C) Method: OECD Test Guideline 117				
	<b>isobut</b> a Partitio octanol	n coefficient: n-	:	log Pow: 2,88 Method: OECD Test Guideline 107				
	<b>propar</b> Partitio octanol	n coefficient: n-	:	log Pow: 2,36				
		oxy-2-propanol: umulation	:	Bioconcentration factor (BCF): < 100				
	Partitio octanol	n coefficient: n- /water	:	log Pow: 0,37				
	Mobilit	y in soil						
	<u>Produc</u> Mobility		:	Remarks: No data available				
		ution among Imental compartments	:	Remarks: No data available				
	Other a	adverse effects						
	Produce Addition information	nal ecological	:	Harmful to aquatic life with long lasting ef	fects.			
	Compo	onents:						
	ethano Results assess	s of PBT and vPvB	:	This substance is not considered to be perbioaccumulating and toxic (PBT). This su considered to be very persistent and very (vPvB).	bstance is not			

#### Hygienic standards:

(Allowable concentration in air, water, including fishery waters, soil)



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Components	Air	Water	Soil	Data Source
ethanol	Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time: 5 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class 4 - low hazard	Maximum Permissible Concentration: 0,01 Milligrams per cubed decimeter Limiting health hazard indicator: sanitary and toxicological effects Hazard class: 3	No data available	List 1 List 5
isobutane	Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time: 15 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class 4 - low hazard	Maximum Permissible Concentration: 0,05 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3	No data available	List 1 List 5
propane	No data available	Maximum Permissible Concentration: 0,05 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3	No data available	List 5
1-methoxy-2-propanol	TSEL value: 0,5 mg/m3	No data available	No data available	List 2
pentane-2,4-dione	No data available	Maximum Permissible Concentration: 0,39 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 4	No data available	List 5
	Concentration that	No data available	No data	List 1



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methy	/I salicylate	prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time: 0,006 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class 4 - low hazard		available	
cinnar	maldehyde	TSEL value: 0,03 mg/m3	No data available	No data available	List 2

For explanation of abbreviations see section 16.

### 13. DISPOSAL CONSIDERATIONS

#### **Disposal methods**

Waste from residues	:	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. Offer empty spray cans to an established disposal company. Pressurized container: Do not pierce or burn, even after use.
		The following Waste Codes are only suggestions:
Waste Code	:	unused product, packagings not completely emptied 16 05 04*, gases in pressure containers (including halons) containing hazardous substances

#### **14. TRANSPORT INFORMATION**

ADR		
UN number	:	UN 1950
Proper shipping name	:	AEROSOLS
Class	:	2
Packing group	:	Not assigned by regulation
Labels	:	2.1
Tunnel restriction code	:	(D)
IATA-DGR		
UN/ID No.		UN 1950
	•	entrees



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Class Packi Label Packi aircra Packi	ng group s ng instruction (cargo	<ul> <li>Aerosols, flammable</li> <li>2.1</li> <li>Not assigned by regulation</li> <li>Flammable Gas</li> <li>203</li> <li>203</li> </ul>	
UN nu Prope Class Packi Label EmS	ng group s	<ul> <li>UN 1950</li> <li>AEROSOLS</li> <li>2.1</li> <li>Not assigned by regulation</li> <li>2.1</li> <li>F-D, S-U</li> <li>no</li> </ul>	

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

Not applicable for product as supplied.

#### Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### **15. REGULATORY INFORMATION**

#### National regulatory information

Federal Law of 21.07.1997 No. 116-FZ (amended on 11.06.2021) "On industrial safety of hazardous production facilities".

Federal Law of 24.06.1998 No. 89-FZ (amended on 02.07.2021) "On production and consumption waste".

Federal Law of 30.03.1999 No. 52-FZ (amended on 02.07.2021) "On the Sanitary and Epidemiological Well-Being of the Population" (amended and supplemented, entered into force on 31.10.2021).

Federal Law of 04.05.1999 No. 96-FZ "On the protection of atmospheric air" (as amended on December 8, 2020).

Federal Law of 27.12.2002 No. 184-FZ (amended on 02.07.2021) "On Technical Regulation" (amended and supplemented, entered into force on 01.09.2021).

Federal Law of 10.01.2002 No. 7-FZ (amended on 02.07.2021) "On environmental protection". Federal Law of 22.07.2008 No. 123-FZ "Technical Regulations on Fire Safety Requirements" TECHNICAL REGULATIONS OF THE CUSTOMS UNION TR CU 030/2012 On requirements for lubricants, oils and special fluids (amended on 03.03.2017).

#### International Regulations

Montreal Protocol

: Not applicable



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Rotter	dam Convention (Pri	or Informed Consent)	:	Not applicable	
Stock	holm Convention (Pe	rsistent Organic Pollutants)	:	Not applicable	

#### **16. OTHER INFORMATION**

#### List of data sources used in the preparation of the Safety Data Sheet

GOST 30333-2007. Interstate standard. Safety data sheet for chemical products. Primary requirements.

GOST 12.1.004-91 System of labor safety standards (SSBT). Fire safety. General requirements. GOST 12.1.007-76 Occupational safety standards system. Noxious substances. Classification and general safety requirements

GOST 12.1.044-89 SSBT. Fire and explosion hazard of substances and materials. Nomenclature of indicators and methods for their determination.

GOST 12.4.021 System of labor safety standards (SSBT). Ventilation systems. General requirements.

GOST 12.4.137-2001 Special footwear with leather uppers for protection against oil, oil products, acids, alkalis, non-toxic and explosive dust. Technical conditions.

GOST 12.4.252-2013 System of labor safety standards (SSBT). Means of individual protection of hands. Gloves. General technical requirements. Test methods.

GOST 14192-96. Interstate standard. Cargo marking. Minsk, 1998.

GOST 19433-88 Dangerous goods. Classification and labeling.

GOST 31340-2013. Interstate standard. Precautionary labeling of chemical products. General requirements.

GOST 32419-2013 Classification of the hazard of chemical products. General requirements.

GOST 32421-2013 Classification of chemical products, the hazard of which is due to physical and chemical properties. Test methods for explosive chemical products.

GOST 32423-2013 Hazard classification of mixed chemical products by their effects on the body. GOST 32424-2013 Classification of the hazard of chemical products by their impact on the environment. Basic provisions.

GOST 32425-2013 Hazard classification of mixed chemical products in terms of environmental impact.

GOST R 53264-2019 Fire fighting equipment. Special protective clothing for firefighters. General technical requirements. Test methods.

GOST R 53265-2019 Fire fighting equipment. Personal protective equipment for the feet of the firefighter. General technical requirements. Test methods.

GOST R 53268-2009 Fire fighting equipment. Fire rescue belts. General technical requirements. Test methods.

GOST R 53269-2019 Fire fighting equipment. Firefighters helmets. General technical requirements. Test methods.

SanPiN 1.2.2353-08 "Carcinogenic factors and basic requirements for the prevention of carcinogenic hazard".

SanPiN 1.2.3685-21 "Hygienic standards and requirements for ensuring the safety and (or) harmlessness to humans of environmental factors" dated 28.01.2021.

SanPiN 2.1.3684-21 "Sanitary and epidemiological requirements for the maintenance of the territories of urban and rural settlements, for water bodies, drinking water and drinking water supply, atmospheric air, soils, living quarters, the operation of industrial, public premises, the organization and implementation of sanitary and anti-epidemic (preventive) measures".



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SanPiN 2.2.0.555-96. 2.2. Labor hygiene. Hygienic requirements for working conditions for women. Sanitary rules and regulations.

Carriage of dangerous goods, International maritime dangerous goods (IMDG) code. Water quality standards for fishery water bodies, including standards for maximum permissible concentrations of harmful substances in the waters of fishery water bodies (approved by order of the Ministry of Agriculture of Russia dated December 13, 2016 No. 552).

Regulations for the carriage of dangerous goods (Appendix 1 and 2) to the Agreement on International Goods Transport by Rail (SMGS), 2009.

Agreement on International Goods Transport by Rail (SMGS).

UN Recommendations on the Transport of Dangerous Goods. Typical rules. Twenty-second revised edition. United Nations, New York and Geneva, 2021. Montreal Protocol (Ozone Depleting Substances)

Stockholm Convention (Persistent Organic Pollutants)

#### Full text of other abbreviations

Acute Tox. Eye Irrit. Flam. Gas Flam. Liq. Press. Gas Skin Irrit. Skin Sens. STOT SE 2000/39/EC		Acute toxicity Eye irritation Flammable gases Flammable liquids Gases under pressure Skin irritation Skin sensitisation Specific target organ toxicity - single exposure Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
RU OEL	:	SanPiN 1.2.3685-21 Table 2.1, Table 2.8, Table 2.16 & Table 2.17 Maximum permissible concentrations (MPC) in the air of the working area
RU TSEL	:	SanPiN 1.2.3685-21 Table 2.2 Tentative Safe Exposure Levels (TSELs) of Pollutants in the Air of the Working Area
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
RU OEL / MPC-STEL	:	•
RU OEL / MPC-TWA	:	Maximum Permissible Concentration - Time Weighted
RU TSEL / TSEL	:	TSEL value
List 1	:	SanPiN 1.2.3685-21 Table 1.1, Table 1.10, & Table 1.11 Maximum permissible concentration (MPC) in the air of urban and rural settlements
List 2	:	SanPiN 1.2.3685-21 Table 1.2, Table 1.12 & Table 1.13 Tentative Safe Exposure Levels (TSEL) in the air of urban and rural settlements
List 5	:	Order of the Russian Federal Fisheries Agency "Standards of maximum permissible concentrations of harmful substances in fishery water bodies"

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; 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



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(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; TCSI - Taiwan Chemical Substance Inventory; 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

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