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

Product name : OKS 611

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				
Emergency telephone	:	+7 495 628 1687				
number		+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 (Accordin Aerosols	<b>ng</b> 1 :	to GOST 32423, GOST 32424 and GOST 32425) Category 1
Skin irritation	:	Category 3
Aspiration hazard	:	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. H304 May be fatal if swallowed and enters airways. H316 Causes mild skin irritation.
Precautionary statements	:	Prevention:





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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.P251 Do not pierce or burn, even after use.

#### **Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331 Do NOT induce vomiting.

#### 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 Solvent Mineral oil.

#### Components

Chemical name	Concentration (% w/w)	Occupational E Limits	xposure	CAS-No.	EC-No.
		MAC value mg/m3 / TSEL value	Hazard Class		
Hydrocarbons, C10- C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	>= 30 - < 50	No data available			918-481-9
butane	>= 30 - < 50	MPC-TWA: 300 mg/m3 Data Source: RU OEL	4	106-97-8	203-448-7
		MPC-STEL: 900 mg/m3 Data Source: RU OEL	4		
propane	>= 1 - < 10	No data available		74-98-6	200-827-9





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isobu	itane	>= 1 - < 10	No data available		75-28-5	200-857-2
	nic acids, leum, calcium salts	>= 0,1 - < 1	No data available		61789-86-4	263-093-9

#### 4. 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. Get medical attention immediately if irritation develops and persists. Wash clothing before reuse. Thoroughly clean shoes before reuse. Wash skin thoroughly with soap and water or use recognized skin cleanser.
In case of eye contact	:	Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes. Seek medical advice.
If swallowed	:	Move the victim to fresh air. Keep respiratory tract clear. Do NOT induce vomiting. Obtain medical attention. Rinse mouth with water. Aspiration hazard if swallowed - can enter lungs and cause damage.
Most important symptoms and effects, both acute and delayed	:	Can be absorbed through skin. Risk of product entering the lungs on vomiting after ingestion. Health injuries may be delayed. Inhalation may provoke the following symptoms: Unconsciousness Dizziness Drowsiness Headache Nausea Tiredness Skin contact may provoke the following symptoms: Erythema Aspiration may cause pulmonary oedema and pneumonitis.
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Notes	s to physician	:	Treat symptomatically.	
5. FIREFI	GHTING MEASURES			
Flam	mable properties			
	point	:	-91 °C Method: Abel-Pensky	
Ignitio	on temperature	:	No data available	
	r explosion limit / Upper nability limit	r :	15 %(V)	
	r explosion limit / Lower nability limit	r :	0,6 %(V)	
Flam	mability (solid, gas)	:	Extremely flammable aerosol.	
Suita	Suitable extinguishing media		ABC powder	
Unsu media	itable extinguishing a	:	High volume water jet	
	Specific hazards during firefighting		Fire Hazard Do not let product enter drains. Contains gas under pressure; may ex Beware of vapours accumulating to for concentrations. Vapours can accumul	orm explosive
-	Hazardous combustion products		Carbon oxides Nitrogen oxides (NOx)	
Furth	er information	:	Standard procedure for chemical fires Collect contaminated fire extinguishin must not be discharged into drains. Cool containers/tanks with water spra	g water separately. This
	Special protective equipment for firefighters		In the event of fire, wear self-containe Use personal protective equipment. Exposure to decomposition products in health.	

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	:	Evacuate personnel to safe areas.
protective equipment and		Ensure adequate ventilation.



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emergency procedures		Remove all sources of ignition. Do not breathe vapours or spray mist. Refer to protective measures listed in sections 7 a Only qualified personnel equipped with suitable p equipment may intervene.		d in sections 7 and 8.
Env	ironmental precautions		Try to prevent the material from er courses. Prevent further leakage or spillage Local authorities should be advise cannot be contained.	e if safe to do so.
	hods and materials for tainment and cleaning up		Contain spillage, and then collect v absorbent material, (e.g. sand, ear vermiculite) and place in container local / national regulations (see se Keep in suitable, closed containers Non-sparking tools should be used	rth, diatomaceous earth, for disposal according to ction 13). s for disposal.

#### 7. HANDLING AND STORAGE

Advice on safe handling	<ul> <li>Do not use in areas without adequate ventilation. Do not breathe vapours or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. For personal protection see section 8. Keep away from fire, sparks and heated surfaces. 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 use sparking tools. These safety instructions also apply to empty packaging which may still contain product residues. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.</li> </ul>
Conditions for safe storage	: BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Store in accordance with the particular national regulations.



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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	
butane	106-97-8	MPC-TWA (vapour and/or gas)	300 mg/m3	RU OEL (2021-02-03)	
	Further info	ormation: Class 4 -	Low hazard		
		MPC-STEL (vapour and/or gas)	900 mg/m3	RU OEL (2021-02-03)	
	Further info	ormation: Class 4 -	Low hazard		
Engineering measures	ventilation Handle on	•	with explosion proo		
Personal protective equipm	ent				
Respiratory protection	: Use respir ventilation	is provided or expo sures are within reco	less adequate local e osure assessment de ommended exposure	emonstrates	
Filter type	: Filter type	A-P			
Hand protection Material Break through time Protective index	: butyl-rubb : > 10 min : Class 1				
Remarks	amongst c	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.			
Eye protection	: Safety gla	sses with side-shie	lds		
Skin and body protection	concentrat	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.			
Protective measures	to the con	The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.			
Hygiene measures	: Wash face	Wash face, hands and any exposed skin thoroughly after			





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			handling.	
9. PHYSIC	CAL AND CHEMICAL I	PROP	ERTIES	
Арре	arance	:	aerosol	
Colou	ır	:	green, black	
Odou	ır	:	characteristic	
Odou	ır Threshold	:	No data available	
рН		:	Not applicable substance/mixture is non-solubl	e (in water)
Melti	ng point/range	:	No data available	
Boilir	ng point/boiling range	:	-161 °C (1.013 hPa)	
Flash	n point	:	-91 °C	
			Method: Abel-Pensky	
Evap	oration rate	:	No data available	
Flam	mability (solid, gas)	:	Extremely flammable aerosol.	
Self-i	gnition	:	No data available	
Uppe flamn	er explosion limit / Uppe nability limit	r:	15 %(V)	
	er explosion limit / Lowe nability limit	r:	0,6 %(V)	
Vapo	our pressure	:	3.800 hPa (20 °C)	
Relat	ive vapour density	:	No data available	
Relat	Relative density		0,68 (20 °C) Reference substance: Water The value is calculated	



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Density	: 0,68 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	: < 20,5 mm2/s ( 40 °C)	
Explosive properties	: Not explosive	
Oxidizing properties	: No data available	
Sublimation point	: No data available	
Metal 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.
Conditions to avoid	:	Heat, flames and sparks. Strong sunlight for prolonged periods. Risk of receptacle bursting.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No decomposition if stored and applied as directed.



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. TOXIC	COLOGICAL INFORI		N	
Acut	e toxicity			
Prod	uct:			
Acute	e oral toxicity	:	Remarks: This information is not a	vailable.
Acute	e inhalation toxicity	:	Symptoms: Inhalation may provoke Respiratory disorder	e the following symptoms:
Acute	e dermal toxicity	:	Remarks: Prolonged or repeated s cause defatting resulting in drying, blistering.	
			Symptoms: Skin disorders	
<u>Com</u>	ponents:			
Hydr	ocarbons, C10-C13	n-alka	nes, isoalkanes, cyclics, < 2% arc	omatics:
Acute	e oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401	I
Acute	e dermal toxicity	:	LD50 (Rabbit): > 5.000 mg/kg Method: OECD Test Guideline 402	2
buta	ne:			
Acute	inhalation toxicity	:	LC50 (Rat): 658 mg/l Exposure time: 4 h Test atmosphere: gas	
isobı	utane:			
Acute	e inhalation toxicity	:	LC50 (Rat): 658 mg/l Exposure time: 4 h Test atmosphere: gas	
Skin	corrosion/irritation			
	conosion/innation			



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#### **Components:**

#### Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics: Species Rabbit : Assessment No skin irritation Method **OECD** Test Guideline 404 : Result Mild skin irritation : Result : Repeated exposure may cause skin dryness or cracking. Serious eye damage/eye irritation **Product:** Remarks Contact with eyes may cause irritation. :

#### Components:

Hydrocarbons,	C10-C13, n-alkanes	, isoalkanes, cyclics	< 2% aromatics:
---------------	--------------------	-----------------------	-----------------

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

#### Respiratory or skin sensitisation

#### Product:

Remarks

: This information is not available.

#### Components:

#### Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics:

Species	:	Guinea pig
Assessment	:	Does not cause skin sensitisation.
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitisation.

#### Sulfonic acids, petroleum, calcium salts:

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



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Germ	cell mutagenicity			
Prod	uct:			
Geno	toxicity in vitro	:	Remarks: No data available	
Geno	toxicity in vivo	:	Remarks: No data available	
<u>Com</u>	ponents:			
Hydro	ocarbons, C10-C13	, n-alka	ines, isoalkanes, cyclics, < 2% ar	omatics:
	cell mutagenicity - ssment	:	Tests on bacterial or mammalian o mutagenic effects.	cell cultures did not show
Carci	nogenicity			
Prod	uct:			
Rema	arks	:	No data available	
<u>Com</u>	ponents:			
Hydro	ocarbons, C10-C13	, n-alka	nes, isoalkanes, cyclics, < 2% ar	omatics:
	nogenicity - ssment	:	Not classifiable as a human carcin	logen.
Repr	oductive toxicity			
Prod	uct:			
Effect	ts on fertility	:	Remarks: No data available	
	ts on foetal opment	:	Remarks: No data available	
<u>Com</u>	ponents:			
•			ines, isoalkanes, cyclics, < 2% ar	omatics:
	oductive toxicity - ssment	:	,	
			No toxicity to reproduction - Teratogenicity -	
			No toxicity to reproduction	



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STOT	- single exposure		
Prod	uct:		
Rema		: No data available	
Com	ponents:		
Hydro	ocarbons, C10-C13	, n-alkanes, isoalkanes, cyclics	s, < 2% aromatics:
Asses	ssment		e is not classified as specific target
		organ toxicant, single ex	posure.
STOT	- repeated exposu	re	
Prod			
Rema		: No data available	
<u>Com</u>	ponents:		
Hydro	ocarbons, C10-C13	, n-alkanes, isoalkanes, cyclics	s, < 2% aromatics:
Asses	ssment	: The substance or mixtur organ toxicant, single ex	e is not classified as specific target
		organ toxicant, single ex	posule.
Repe	ated dose toxicity		
Prod	uct:		
Rema	arks	: This information is not a	vailable.
Aspir	ration toxicity		
Prod	uct:		
May b	be fatal if swallowed	and enters airways.	
Com	ponents:		
			<b>2</b> 24
-	be fatal if swallowed	, <b>n-alkanes, isoalkanes, cyclics</b> and enters airways.	s, < 2% aromatics:
Furth	er information		
Prod			
Rema	arks	: Information given is base	ed on data on the components and
		12 / 20	
		-	FREUDENBER





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the toxicology of similar products.

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

Ecotoxicity	
<u>Product:</u> 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
Components:	
<b>Hydrocarbons, C10-C13, n-al</b> Toxicity to fish	<ul> <li>kanes, isoalkanes, cyclics, &lt; 2% aromatics:</li> <li>LC50 (Oncorhynchus mykiss (rainbow trout)): &gt; 100 mg/l Exposure time: 96 h</li> </ul>
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h
Persistence and degradability	у
Product:	

Biodegradability	:	Remarks: No data available
Physico-chemical removability	:	Remarks: No data available



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Bioad	cumulative potential			
<u>Prod</u> u	uct:			
	cumulation	:	Remarks: Product does not contain si persistent, bioaccumulative, and toxic or higher. Product does not contain substances persistent and very bioaccumulative ( or higher.	: (PBT) at levels of 0.1 which are very
<u>Comp</u>	oonents:			
butan	ne:			
	ion coefficient: n- ol/water	:	log Pow: 2,89 Method: OECD Test Guideline 107	
propa	ane:			
	ion coefficient: n- ol/water	:	log Pow: 2,36	
isobu	itane:			
	ion coefficient: n- ol/water	:	log Pow: 2,88 Method: OECD Test Guideline 107	
Mobil	lity in soil			
<u>Produ</u>				
Mobili	ity	:	Remarks: No data available	
	oution among onmental compartments		Remarks: No data available	
Other	adverse effects			
<u>Produ</u>	uct:			
Additi inform	onal ecological nation	:	No information on ecology is available	9.
<u>Comp</u>	oonents:			
Resul	ocarbons, C10-C13, n- Its of PBT and vPvB esment		nes, isoalkanes, cyclics, < 2% arom Non-classified PBT substance Non-cl	



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#### Hygienic standards:

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

Components	Air	Water	Soil	Data Source
Hydrocarbons, C10- C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	TSEL value: 0,05 mg/m3	Maximum Permissible Concentration: 0,05 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3	No data available	List 2 List 5
butane	Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time: 200 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
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





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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 Proper shipping name Class Packing group Labels Tunnel restriction code		UN 1950 AEROSOLS 2 Not assigned by regulation 2.1 (D)
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)	:	UN 1950 Aerosols, flammable 2.1 Not assigned by regulation Flammable Gas 203 203
<b>IMDG-Code</b> UN number Proper shipping name	:	UN 1950 AEROSOLS
Class Packing group	:	2.1 Not assigned by regulation



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EmS Code Marine pollutant

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Labe	ls	: 21	

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

F-D, S-U

no

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

international Regulations		
Montreal Protocol	:	Not applicable
Rotterdam Convention (Prior Informed Consent)	:	Not applicable
Stockholm Convention (Persistent 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.



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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".

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)



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Full text of other abbreviations								
Asp. Tox.		:	Aspiration hazard					
Flam. Gas		:	Flammable gases					
Flam. Liq.		:	Flammable liquids					
Press. Gas		:	Gases under pressure					
Skin Irrit.		:	Skin irritation					
Skin Sens.		:	Skin sensitisation					
RU(	DEL	:	SanPiN 1.2.3685-21 Table 2.1, Table 2 2.17 Maximum permissible concentrati the working area					
RU OEL / MPC-STEL		:	Maximum Permissible Concentration - Short Term Exposure					
RU OEL / MPC-TWA			Maximum Permissible Concentration - Time Weighted					
List	1	:	SanPiN 1.2.3685-21 Table 1.1, Table 7 Maximum permissible concentration (M and rural settlements					
List	2	:	SanPiN 1.2.3685-21 Table 1.2, Table 7 Tentative Safe Exposure Levels (TSEL rural settlements					
List	5	:	Order of the Russian Federal Fisheries maximum permissible concentrations of 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 (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





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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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