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

Product name : OKS 491

Manufacturer or supplier's o	deta	ils			
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			
Restrictions on use	:	Restricted to professional users.			

2. HAZARDS IDENTIFICATION

Hazard pictograms

GHS Classification (According to GOST 32423, GOST 32424 and GOST 32425)

Aerosols	:	Category 1		
Skin irritation	:	Category 3		
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system, Central nervous system)		
Aspiration hazard	:	Category 1		
Short-term (acute) aquatic hazard	:	Category 3		
Long-term (chronic) aquatic hazard	:	Category 3		

GHS-Labelling (According to GOST 31340)

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Signa	al word	: Danger	
Haza	rd statements	 H222 Extremely flammable aero H229 Pressurised container: Ma H304 May be fatal if swallowed H316 Causes mild skin irritation H335 May cause respiratory irri H336 May cause drowsiness or H412 Harmful to aquatic life with 	ay burst if heated. and enters airways. n. tation. dizziness.
Preca	autionary statements	Prevention:	
		P210 Keep away from heat, hot and other ignition sources. No s P211 Do not spray on an open P251 Do not pierce or burn, eve	smoking. flame or other ignition source.
		Response: P301 + P310 IF SWALLOWED: CENTER/ doctor. P331 Do NOT induce vomiting.	Immediately call a POISON
		Storage: P410 + P412 Protect from sunli temperatures exceeding 50 °C/	

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 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, C9, aromatics	>= 20 - < 25	No data available			918-668-5
butane	>= 10 - < 20	MPC-TWA: 300 mg/m3 Data Source: RU OEL	4	106-97-8	203-448-7
		MPC-STEL:	4		







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		900 mg/m3 Data Source: RU OEL		
Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	>= 10 - < 20	No data available	64742-49-0	927-241-2
propane	>= 1 - < 10	No data available	74-98-6	200-827-9

4. FIRST AID MEASURES

If inhaled	:	Call a physician or poison control centre immediately. 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. If accidentally swallowed obtain immediate medical attention. Keep respiratory tract clear. Do NOT induce vomiting. Rinse mouth with water. Aspiration hazard if swallowed - can enter lungs and cause damage.
Most important symptoms and effects, both acute and delayed	:	Central nervous system depression 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



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		Drowsiness Headache Nausea Tiredness Skin contact may provoke the follo Erythema Aspiration may cause pulmonary o	
Note	s to physician	: Treat symptomatically.	

5. FIREFIGHTING MEASURES

Flammable properties		
Flash point	:	< -20 °C Method: DIN 51755, closed cup
Ignition temperature	:	> 235 °C
Upper explosion limit / Upper flammability limit	:	12,5 %(V)
Lower explosion limit / Lower flammability limit	:	0,6 %(V)
Flammability (solid, gas)	:	Extremely flammable aerosol.
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.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Evacuate personnel to safe areas. Ensure adequate ventilation. Remove all sources of ignition. Do not breathe vapours or spray mist. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Refer to protective measures listed in sections 7 and 8. Only qualified personnel equipped with suitable protective equipment may intervene.
Environmental precautions	:	Do not allow contact with soil, surface or ground water. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. Non-sparking tools should be used.

7. HANDLING AND STORAGE

Advice on safe handling	:	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 ingest. 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.
Conditions for safe storage	:	BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 50 °C. Do not open by force



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or throw into fire even after use. Do not spray on flames or red-hot objects. Store in accordance with the particular national regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 infor	mation: Class 4 -	Low hazard	•
		MPC-STEL (vapour and/or gas)	900 mg/m3	RU OEL (2021-02-03)
	Further infor	mation: Class 4 -	Low hazard	
Engineering measures	ventilation.	/ in a place equipp	with explosion proof ed with local exhaus	
Personal protective equipn	nent			
Respiratory protection	ventilation i	s provided or expo res are within reco	ess adequate local e osure assessment de ommended exposure	monstrates
Filter type	: Filter type A	\-P		
Hand protection Material Break through time Protective index	: Fluorinated : > 10 min : Class 1	rubber		
Remarks	amongst ot	her things on the r	break through time donaterial, the thicknes naterial, the thicknes as to be measured fo	s and the
Eye protection	: Safety glass	ses with side-shiel	ds	
Skin and body protection	concentratio		ation to its type, to th dangerous substanc	
Protective measures	: The type of	protective equipm	ent must be selected	d according
	0	20	a brand of	

Components with workplace control parameters





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Hygie	ne measures	:	to the concentration and amount of at the specific workplace. Wash face, hands and any expose handling.	-
9. PHYSIC	CAL AND CHEMICAL F	PROF	PERTIES	
Appea	arance	:	aerosol	
Colou	ır	:	black	
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 range	:	< -20 °C (1.013 hPa)	
Flash	point	:	< -20 °C	
			Method: DIN 51755, closed cup	
Evapo	oration rate	:	No data available	
Flamr	mability (solid, gas)	:	Extremely flammable aerosol.	
Self-ig	gnition	:	not auto-flammable	
	r explosion limit / Upper nability limit	r:	12,5 %(V)	
	r explosion limit / Lower nability limit	r:	0,6 %(V)	
Vapo	ur pressure	:	3.700 hPa (20 °C)	
Relati	ive vapour density	:	No data available	
Relati	ive density	:	0,756 (20 °C)	



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			Reference substance: Water The value is calculated	
Dens	ity	:	0,76 g/cm3 (20 °C)	
Bulk	density	:	No data available	
	bility(ies) /ater solubility	:	insoluble	
So	olubility in other solvents	6 :	No data available	
	ion coefficient: n- ol/water	:	No data available	
Auto-	ignition temperature	:	> 235 °C	
Deco	mposition temperature	:	No data available	
Visco Vi	osity scosity, dynamic	:	No data available	
Vi	scosity, kinematic	:	< 20,5 mm2/s (40 °C)	
Explo	osive properties	:	Not explosive	
Oxidi	zing properties	:	No data available	
Subli	mation point	:	No data available	
Metal	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.
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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11. TOXICOLOGICAL INFORMATION

Acute toxicity	
Product: Acute oral toxicity :	Acute toxicity estimate: > 5.000 mg/kg Method: Calculation method
	Remarks: Effects due to ingestion may include:
	Symptoms: Central nervous system depression
Acute inhalation toxicity :	Remarks: Respiration of solvent vapour may cause dizziness. Irritating to respiratory system.
	Symptoms: Inhalation may provoke the following symptoms:, Respiratory disorder, Local irritation, Respiratory disorders, Dizziness, Drowsiness, Vomiting, Fatigue, Vertigo, Central nervous system depression
Acute dermal toxicity :	Acute toxicity estimate: > 5.000 mg/kg Method: Calculation method
	Remarks: Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible blistering.
	Symptoms: Skin disorders
Components:	
Hydrocarbons, C9, aromatics:	
Acute oral toxicity :	LD50 (Rat): 4.200 mg/kg Method: OECD Test Guideline 401
Acute dermal toxicity :	LD50 (Rabbit): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The component/mixture is minimally toxic after single contact with skin.

butane:



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Acute	e inhalation toxicity	E	C50 (Rat): 658 mg/l xposure time: 4 h est atmosphere: gas	
-	ntha (petroleum), hyc e oral toxicity		d light; Low boiling point hyd D50 Oral (Rat): > 5.000 mg/kg	rogen treated naphtha:
Skin	corrosion/irritation			
<u>Prod</u> Rema		: Т	his information is not available.	
<u>Com</u>	ponents:			
Hydr	ocarbons, C9, aroma	tics:		
Spec			abbit	
Meth Resu			ECD Test Guideline 404 Iild skin irritation	
Resu	lt	: R	epeated exposure may cause s	kin dryness or cracking.
Serio	ous eye damage/eye	irritation		
Prod	uct:			
Rema	arks	: C	contact with eyes may cause irrit	ation.
<u>Com</u>	ponents:			
Hydr	ocarbons, C9, aroma	tics:		
Spec			abbit	
Resu Asse	it ssment		lo eye irritation lo eye irritation	
Resp	piratory or skin sensi	tisation		
Resp <u>Prod</u>	-	tisation		
-	uct:		his information is not available.	
Prod Rema	uct:		his information is not available.	
Prod Rema	uct: arks	: Т	his information is not available.	

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	Test Ty Specie Assess Methoo Result	sment		Maximisation Test Guinea pig Does not cause skin sensitisation. OECD Test Guideline 406 Does not cause skin sensitisation.	
	Germ o	cell mutagenicity			
	Produc	ct:			
		oxicity in vitro	:	Remarks: No data available	
	Genoto	oxicity in vivo	:	Remarks: No data available	
	<u>Compo</u>	onents:			
	Hydroo	carbons, C9, aromati	cs:		
	Germ o Assess	cell mutagenicity - ment	:	Animal testing did not show any mutagen	ic effects.
		ogenicity			
	Produc				
	Remar	ks	:	No data available	
	Compo	onents:			
	-	carbons, C9, aromati			
	Carcino	ogenicity - ment	:	Not classifiable as a human carcinogen.	
	-	ductive toxicity			
	Produc				
	Effects	on fertility	:	Remarks: No data available	
	Effects develop	on foetal oment	:	Remarks: No data available	
	Compo	onents:			
	-	carbons, C9, aromati	cs:		
		luctive toxicity -	:	- Fertility -	
	Assess	inefil		No toxicity to reproduction	



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STOT - single exposure

Components:

Hydrocarbons, C9, aromatic	s:	
Exposure routes Target Organs	-	Inhalation Respiratory system
Assessment		May cause respiratory irritation.

Exposure routes	:	Inhalation
Target Organs	:	Central nervous system
Assessment	:	May cause drowsiness or dizziness.

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:				
Exposure routes		Inhalation		

Exposure routes	:	Inhalation
Assessment	:	May cause drowsiness or dizziness.

STOT - repeated exposure

Components:

Hydrocarbons, C9, aromatics	s:	
Assessment	:	The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Remarks

: This information is not available.

Components:

Hydrocarbons, C9, aromatics:				
Repeated dose toxicity - : Assessment	Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.			

Aspiration toxicity

Product:

May be fatal if swallowed and enters airways.



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Components:

Hydrocarbons, C9, aromatics:

May be fatal if swallowed and enters airways.

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha: May be fatal if swallowed and enters airways.

Further information

Product:

Remarks

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

12. ECOLOGICAL INFORMATION

Product:

Toxicity to fish

Remarks: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

2

2

plants	•	Remarks: No data available

Toxicity to microorganisms	:	Remarks: No data available
----------------------------	---	----------------------------

Components:

Hydrocarbons, C9, aromatics:	
Toxicity to fish :	LC50 (Oncorhynchus mykiss (rainbow trout)): 9,22 mg/l Exposure time: 96 h
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 6,14 mg/l Exposure time: 48 h



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rsion	Revision Date: 10.11.2022		e of last issue: 21.01.2021 e of first issue: 06.05.2014	Print Date: 11.11.2022
	oxicology Assessme		Toxic to equatio life	
Acute	aquatic toxicity	:	Toxic to aquatic life.	
Chror	nic aquatic toxicity	:	Toxic to aquatic life with long lastin	ng effects.
Naph	tha (petroleum), hy	drotrea	ated light; Low boiling point hydro	ogen treated naphtha:
	oxicology Assessm			
Chror	nic aquatic toxicity	:	Harmful to aquatic life with long la	sting effects.
Persi	stence and degrada	ability		
Produ Biodo			Pomorko: No data available	
BIODE	gradability	:	Remarks: No data available	
	co-chemical vability	:	Remarks: No data available	
	oonents:			
	ocarbons, C9, arom	atics:		
	gradability	:	Result: rapidly biodegradable	
Naph	tha (petroleum), hy	drotrea	nted light; Low boiling point hydro	ogen treated naphtha:
Biode	gradability	:	Result: rapidly biodegradable	
Bioad	cumulative potenti	al		
Produ				
Bioac	cumulation	:	Remarks: This mixture contains no be persistent, bioaccumulating and This mixture contains no substanc persistent and very bioaccumulating	d toxic (PBT). e considered to be very
<u>Com</u>	oonents:			
Hydro	ocarbons, C9, arom	atics:		
	ion coefficient: n- ol/water	:	log Pow: 3,7 - 4,5	



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		on coefficient: n- I/water	:	log Pow: 2,89 Method: OECD Test Guideline 107	
	Napht	ha (petroleum), hydr	otrea	nted light; Low boiling point hydrogen tr	reated naphtha:
	Bioacc	umulation	:	Remarks: No data available	
	Partitic octano	on coefficient: n- I/water	:	Remarks: No data available	
		ne: n coefficient: n- I/water	:	log Pow: 2,36	
	Mobili	ty in soil			
	<u>Produ</u> Mobilit		:	Remarks: No data available	
		ution among nmental compartments	: s	Remarks: No data available	
	Other	adverse effects			
	Produ Additic informa	nal ecological	:	Harmful to aquatic life with long lasting ef	fects.

Hygienic standards:

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

Components	Air	Water	Soil	Data Source
Hydrocarbons, C9, aromatics	TSEL value: 0,2 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 Permissible Concentration: 0,05 Milligrams per cubed decimeter	No data available	List 1 List 5







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		maximum one-time: 200 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class 4 - low hazard	Limiting health hazard indicator: toxic Hazard class: 3		
hydro boilin	ntha (petroleum), otreated light; Low og point hydrogen ed naphtha	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
propa	ane	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

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



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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
IMDG-Code UN number Proper shipping name	:	UN 1950 AEROSOLS
Class Packing group Labels EmS Code Marine pollutant	:	2.1 Not assigned by regulation 2.1 F-D, S-U no

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).





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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
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. 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.



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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)

Full text of other abbreviations

Acute Tox. Aquatic Acute Aquatic Chronic Asp. Tox. Flam. Gas Flam. Liq. Press. Gas Skin Irrit. STOT SE RU OEL		Acute toxicity Short-term (acute) aquatic hazard Long-term (chronic) aquatic hazard Aspiration hazard Flammable gases Flammable liquids Gases under pressure Skin irritation Specific target organ toxicity - single exposure 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
RU OEL / MPC-STEL RU OEL / MPC-TWA		the working area Maximum Permissible Concentration - Short Term Exposure Maximum Permissible Concentration - Time Weighted Average
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"



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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 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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