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### **OKS 451**

Version	Revision Date:	Date of last issue: 16.03.2022	Print Date:
4.1	20.04.2022	Date of first issue: 04.07.2013	22.04.2022

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

Product name : OKS 451

Manufacturer or supplier's de	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 ch	err	nical and restrictions on use						
Recommended use	:	Lubricant spray						
Restrictions on use	:	Restricted to professional users.						

### 2. HAZARDS IDENTIFICATION

GHS Classification (Accordin Aerosols	ng i	to GOST 32423, GOST 32424 and GOST 32425) Category 1
Eye irritation	:	Category 2A
Skin sensitisation	:	Category 1
GHS-Labelling (According to Hazard pictograms	o Go	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. H319 Causes serious eye irritation.
Precautionary statements	:	Prevention:



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		P210 Keep away from heat, hot s and other ignition sources. No sn P211 Do not spray on an open fl	noking. ame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing mist.

P280 Wear protective gloves/ eye protection/ face protection.

### 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 Synthetic hydrocarbon oil

#### Components

Chemical name	Concentration (% w/w)	Occupational E Limits	Occupational Exposure Limits		EC-No.
		MAC value mg/m3 / TSEL value	Hazard Class		
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	>= 10 - < 20	No data available		74-98-6	200-827-9
isobutane	>= 10 - < 20	No data available		75-28-5	200-857-2
Sulfonic acids, petroleum, calcium salts	>= 0,1 - < 1	No data available		61789-86-4	263-093-9
Molybdenum trioxide, reaction products with	>= 0,25 - < 1	No data available			947-946-9



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bis[O,O-bis(2- ethylhexyl)] hydrogen dithiophosphate						
FIRST /	AID MEASURES					
lf inha	aled	medica Keep p If unco advice Keep r	espiratory tract cle thing is irregular or	at rest. ecovery po ear.	sition and seel	medical
In cas	se of skin contact	Wash Get me persist Wash	off all contaminated off immediately wit edical attention im s. clothing before reu ughly clean shoes	th soap and mediately if use.	I plenty of wate irritation devel	
In cas	se of eye contact	for at l	immediately with p east 10 minutes. nedical advice.	lenty of wa	ter, also under	the eyelids
lf swa	llowed	Keep r Do NC	he victim to fresh espiratory tract cle T induce vomiting mouth with water.	ear.		
	important symptoms ffects, both acute and ed	Inhalat Uncon Dizzine Drows Heada Nause Tiredn	iness che a			
Notes	to physician	with th	st aid procedure sl e doctor responsib symptomatically.			nsultation

# 5. FIREFIGHTING MEASURES

### Flammable properties

Flash point

: -60 °C Method: DIN 51755, closed cup



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ļ	Ignitior	temperature	:	> 350 °C	
		explosion limit / Upper ability limit	:	10,9 %(V)	
		explosion limit / Lower ability limit	:	1,5 %(V)	
l	Flamm	ability (solid, gas)	:	Extremely flammable aerosol.	
;	Suitabl	e extinguishing media	:	ABC powder	
	Unsuita media	able extinguishing	:	High volume water jet	
	Specifi firefigh	c hazards during ting	:	Fire Hazard Do not let product enter drains. Contains gas under pressure; may explor Beware of vapours accumulating to form concentrations. Vapours can accumulate	explosive
	Hazaro produc	lous combustion ts	:	Carbon oxides Nitrogen oxides (NOx)	
I	Furthe	r information	:	Standard procedure for chemical fires. Collect contaminated fire extinguishing wa must not be discharged into drains. Cool containers/tanks with water spray.	ater separately. This
		l protective equipment ighters	:	In the event of fire, wear self-contained by Use personal protective equipment. Exposure to decomposition products may health.	

### 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. Refer to protective measures listed in sections 7 and 8. Only qualified personnel equipped with suitable protective equipment may intervene.
Environmental precautions :	Try to prevent the material from entering drains or water courses. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.



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	ethods and materials for ntainment and cleaning up	: Contain spillage, and then colle absorbent material, (e.g. sand, vermiculite) and place in conta local / national regulations (see Keep in suitable, closed contai Non-sparking tools should be u	earth, diatomaceous earth, iner for disposal according to e section 13). ners for disposal.
7. HAN	DLING AND STORAGE		
Ac	lvice on safe handling	being used. Smoking, eating and drinking s application area. Wash hands and face before b handling the product. Do not get in eyes or mouth or Do not get on skin or clothing. Do not ingest. Do not use sparking tools.	ay mist. n, wear suitable respiratory es. ction 8. nd heated surfaces. sensitisation problems or ecurrent respiratory disease process in which this mixture is should be prohibited in the preaks and immediately after on skin. apply to empty packaging which ues. from sunlight and do not
Co	onditions for safe storage		

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of	Control parameters /	Data Source
		exposure)	Permissible	
			concentration	



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butan	e		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		
Engir	neering measures	:	ventilation.	/ in a place equipp	l with explosion pro		
Perso	onal protective equi	pment					
Respi	Respiratory protection		Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Short term only				
Fil	lter type	:	Filter type A	\-P			
Ma Br	protection aterial eak through time otective index	:	butyl-rubbe > 10 min Class 1	r			
Re	emarks	:	break throu material, th	gh time depends	ontact use protectiv amongst other thin le type of glove and case.	gs on the	
Eye p	protection	:	Safety glas	ses with side-shie	lds		
Prote	ctive measures	:	to the conce at the speci Choose boo concentratio	entration and amo fic workplace. dy protection in re	nent must be selec ount of the dangero lation to its type, to dangerous substa	us substance	
Hygie	ene measures	:	Wash face, handling.	hands and any e	xposed skin thorou	ghly after	

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : aerosol

Colour : brown



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Odd	our	:	characteristic	
Odd	our Threshold	:	No data available	
рН		:	Not applicable substance/mixture is non-soluble (in wat	er)
Mel	ting point/range	:	No data available	
Boil	ling point/boiling range	:	-42 °C (1.013 hPa)	
Flas	sh point	:	-60 °C	
			Method: DIN 51755, closed cup	
Eva	poration rate	:	No data available	
Flar	mmability (solid, gas)	:	Extremely flammable aerosol.	
Self	f-ignition	:	not auto-flammable	
	per explosion limit / Upper nmability limit	·:	10,9 %(V)	
	ver explosion limit / Lower nmability limit	· :	1,5 %(V)	
Vap	oour pressure	:	3.000 hPa (20 °C)	
Rela	ative vapour density	:	No data available	
Rela	ative density	:	0,67 (20 °C) Reference substance: Water The value is calculated	
Der	nsity	:	0,67 g/cm3 (20 °C)	
Bull	k density	:	No data available	
	ubility(ies) Water solubility	:	insoluble	
\$	Solubility in other solvents	<b>3</b> :	No data available	
	tition coefficient: n- anol/water	:	No data available	



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Auto-	ignition temperature	:	> 350 °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		
			NI. 1.(		
Oxidi	zing 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.
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.

### **11. TOXICOLOGICAL INFORMATION**

Acute toxicity			
Product: Acute oral toxicity	:	Remarks: This information is not availab	le.
Acute inhalation toxicity	:	Symptoms: Inhalation may provoke the Respiratory disorder	following symptoms:,
Acute dermal toxicity	:	Symptoms: Redness, Local irritation	
		0 / 10	a brand of



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# OVO AFA

<b>(S 45</b> 1			
sion	Revision Date: 20.04.2022	Date of last issue: 16.03.2022 Date of first issue: 04.07.2013	Print Date: 22.04.2022
-			
<u>Comp</u>	oonents:		
butar	-		
Acute	inhalation toxicity	: LC50 (Rat): 658 mg/l Exposure time: 4 h Test atmosphere: gas	
isobu	itane:		
Acute	inhalation toxicity	: LC50 (Rat): 658 mg/l Exposure time: 4 h	
		Test atmosphere: gas	
Molyl	odenum trioxide, rea	ction products with bis[O,O-bis	s(2-ethylhexyl)] hydrogen
dithic	phosphate:		
Acute	dermal toxicity	: Symptoms: Redness, Loca	al irritation
Skin	corrosion/irritation		
Produ	uct:		
Rema	arks	: This information is not ava	ilable.
Com	oonents:		
Moly	odenum trioxide, rea	ction products with bis[O,O-bis	s(2-ethylhexyl)] hydrogen
	pphosphate: ssment	: Irritating to skin.	
Resul		: Irritating to skin.	
Rema	arks	: Irritating to skin.	
Serio	us eye damage/eye	rritation	
Produ	uct:		
Resul		: Eye irritation	
Rema	arks	: Irritating to eyes.	



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Molybo dithiop Result Assess	ohosphate: ment atory or skin sens <u>ot:</u>	action : :	May cause sensitisation by skin co	
Molybo dithiop Result Assess Respire Produce Assess	denum trioxide, re phosphate: ment atory or skin sens	itisatic	No eye irritation No eye irritation <b>on</b> May cause sensitisation by skin co	
dithiop Result Assess Respire Produce Assess	ohosphate: ment atory or skin sens <u>ot:</u>	itisatic	No eye irritation No eye irritation <b>on</b> May cause sensitisation by skin co	
Assess Respire Produce Assess	atory or skin sens <u>ct:</u>		No eye irritation on May cause sensitisation by skin co	
Produc Assess	<u>&gt;t:</u>		May cause sensitisation by skin co	reto et
Assess		:		where
	ment	:		nto ot
			May cause sensitisation by skin co	
Compo	onents:			
Sulfon	ic acids, petroleur	n, calc	ium salts:	
Assess	ment	:	The product is a skin sensitiser, su	b-category 1B.
	phosphate:	:	products with bis[O,O-bis(2-ethyl The product is a skin sensitiser, su The product is a skin sensitiser, su	ib-category 1B.
Germ o	cell mutagenicity			
<u>Produc</u> Genoto	<u>et:</u> exicity in vitro	:	Remarks: No data available	
Genoto	oxicity in vivo	:	Remarks: No data available	
Carcin	ogenicity			
Produc	<u>::</u>			
Remarl	ks	:	No data available	
Reproc	ductive toxicity			
Produc	<u>st:</u>			
Effects	on fertility	:	Remarks: No data available	
Effects	on foetal	:	Remarks: No data available	



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d	levelopi	ment			
R	Repeate	ed dose toxicity			
Р	Product				
	Remarks		:	This information is not available.	
A	Spirati	on toxicity			
<u>P</u>	Product				
т	his info	rmation is not availa	ble.		
F	urther	information			
Р	Product				
R	Remark	5	:	Information given is based on data on the toxicology of similar products.	e components and
<u>c</u>	Compoi	nents:			
		enum trioxide, reac losphate:	tion	products with bis[O,O-bis(2-ethylhexyl)	] hydrogen
R	Remark	5	:	Ingestion causes irritation of upper respiration gastrointestinal disturbance.	atory system and

### **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



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### Components:

-	
Molybdenum trioxide, reaction dithiophosphate:	products with bis[O,O-bis(2-ethylhexyl)] hydrogen
Toxicity 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.
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic : plants	EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
Persistence and degradability	
<u>Product:</u> Biodegradability :	Remarks: No data available
Physico-chemical : removability <u>Components:</u>	Remarks: No data available
	products with bis[O,O-bis(2-ethylhexyl)] hydrogen
dithiophosphate:	
Biodegradability :	Result: Not rapidly biodegradable

:	Result: Not rapidly biodegradable
	Biodegradation: 11 %
	Exposure time: 28 d
	Method: OECD Test Guideline 301B



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Bioa	ccumulative potential			
Prod	uct:			
Bioac	cumulation	:	Remarks: This mixture contains no be persistent, bioaccumulating and This mixture contains no substance persistent and very bioaccumulatin	l toxic (PBT). e considered to be very
Com	ponents:			
buta	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	
isobı	utane:			
	ion coefficient: n- ol/water	:	log Pow: 2,88 Method: OECD Test Guideline 107	
Moly	bdenum trioxide, react	ion	products with bis[O,O-bis(2-ethyl	hexyl)] hydrogen
dithio Partit	ophosphate: ion coefficient: n- ol/water	:	log Pow: > 4	
dithic Partit octan	ophosphate: ion coefficient: n-	:	log Pow: > 4	
dithic Partit octan	ophosphate: ion coefficient: n- iol/water lity in soil	:	log Pow: > 4	
dithic Partit octan Mobi	ophosphate: ion coefficient: n- iol/water lity in soil uct:	:	log Pow: > 4 Remarks: No data available	
dithic Partit octan Mobi Prod Mobil Distri	ophosphate: ion coefficient: n- iol/water lity in soil uct:	:	J	
dithic Partit octan Mobi <u>Prod</u> Mobil Distri enviro	ophosphate: ion coefficient: n- iol/water lity in soil uct: ity bution among	:	Remarks: No data available	
dithic Partit octan Mobi <u>Prod</u> Mobil Distri enviro	ophosphate: ion coefficient: n- iol/water lity in soil <u>uct:</u> lity bution among onmental compartments r adverse effects	:	Remarks: No data available	
dithic Partit octan Mobi Prod Mobil Distri enviro Othe Prod Addit	ophosphate: ion coefficient: n- iol/water lity in soil <u>uct:</u> lity bution among onmental compartments r adverse effects	:	Remarks: No data available	ıble.
dithic Partit octan Mobi Prod Distri enviro Othe Prod Addit inform	ophosphate: ion coefficient: n- iol/water lity in soil <u>uct:</u> lity bution among onmental compartments r adverse effects <u>uct:</u> ional ecological	:	Remarks: No data available Remarks: No data available	ıble.
dithic Partit octan Mobi Prod Distri enviro Othe Prod Addit inform Com	<pre>pphosphate: ion coefficient: n- iol/water lity in soil uct: iity bution among onmental compartments r adverse effects uct: ional ecological nation ponents:</pre>	:	Remarks: No data available Remarks: No data available	



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information

#### Hygienic standards:

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

Components	Air	Water	Soil	Data Source
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 Class 4 - low hazard	Maximum Permissible Concentration 0,05 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3		List 5
propane		Maximum Permissible Concentration 0,05 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3		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 Class 4 - low hazard	Maximum Permissible Concentration 0,05 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3		List 5

List 5: Order of the Russian Federal Fisheries Agency "Standards of maximum permissible concentrations of harmful substances in fishery water bodies"

#### **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
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		national regulations.		
Contaminated packaging		the unused product. Offer empty spray cans to an e		
		The following Waste Codes are	e only suggestions:	
Waste Code		<ul> <li>unused product, packagings no 16 05 04*, gases in pressure c containing hazardous substance</li> </ul>	ontainers (including halons)	

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

ADR UN number Proper shipping name Class Packing group Labels Tunnel restriction code	<ul> <li>: UN 1950</li> <li>: AEROSOLS</li> <li>: 2</li> <li>: Not assigned by regulation</li> <li>: 2.1</li> <li>: (D)</li> </ul>
IATA-DGR UN/ID No. Proper shipping name Class Packing group Labels Packing instruction (cargo aircraft) Packing instruction (passenger aircraft)	<ul> <li>UN 1950</li> <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>
<b>IMDG-Code</b> UN number Proper shipping name	: UN 1950 : AEROSOLS
Class Packing group Labels EmS Code Marine pollutant	<ul> <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.





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#### 15. REGULATORY INFORMATION

#### National regulatory information

Federal Law of 10.01.2002 No. 184-FZ "On Technical Regulation". Federal Law of 10.01.2002 No. 7-FZ "On Environmental Protection". 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 10.01.2002 No. 7-FZ (amended on 02.07.2021) "On environmental protection". Federal Law of 04.05.1999 No. 96-FZ "On the protection of atmospheric air" (as amended on December 8, 2020). 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 27.12.2002 No. 184-FZ (amended on 02.07.2021) "On Technical Regulation" (amended and supplemented, entered into force on 01.09.2021). TECHNICAL REGULATIONS OF THE CUSTOMS UNION TR CU 030/2012 On requirements for lubricants, oils and special fluids (amended on 03.03.2017).

#### **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 12.1.007-76 Occupational safety standards system. Noxious substances. Classification and general safety requirements

GOST 12.1.044-89 Occupational safety standards system. Fire and explosion hazard of substances and materials. Nomenclature of indices and methods of their determination GOST 14192-96. Interstate standard. Cargo marking. Minsk, 1998.

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 53264-2009 Fire fighting equipment. Special protective clothing for firefighters. General technical requirements. Test methods.

GOST R 53265-2009 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 53269-2009 Fire fighting equipment. Firefighters helmets. General technical requirements. Test methods.

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". European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR).

United Nations. New York and Geneva, 20.

International Maritime Dangerous Goods Code (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.

UN Recommendations on the Transport of Dangerous Goods. Typical rules. Twenty-first revised edition. United Nations, New York and Geneva, 2019.

#### Full text of other abbreviations

Aquatic Chronic Flam. Gas	÷	
Press. Gas	:	Gases under pressure
Skin Irrit. Skin Sens.	:	Skin irritation Skin sensitisation
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 OEL / MPC-STEL RU OEL / MPC-TWA	:	

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



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### **OKS 451**

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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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