

## OKS 510

Version	Revision Date:	Date of last issue: 17.05.2019	Print Date:
3.3	19.09.2022	Date of first issue: 28.03.2014	19.09.2022

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

Product name : OKS 510

#### 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

Restrictions on use : Restricted to professional users.

### 2. HAZARDS IDENTIFICATION

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

Flammable liquids : Category 2

Skin irritation : Category 2

Serious eye damage : Category 1

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

Aspiration hazard : Category 1

Short-term (acute) aquatic hazard : Category 2

Long-term (chronic) aquatic hazard : Category 2

#### GHS-Labeling (According to GOST 31340)

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Hazard pictograms :     

Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P331 Do NOT induce vomiting.  
P370 + P378 In case of fire: Use alcohol-resistant foam, carbon dioxide or water mist to extinguish.  
P391 Collect spillage.  
**Storage:**  
P403 + P235 Store in a well-ventilated place. Keep cool.

**Other hazards which do not result in classification**  
None known.

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Pure substance/mixture : Mixture

Chemical nature : Solvent  
Molybdenum disulfide  
graphite  
Silicone resin

**Components**

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Chemical name	Concentration (% w/w)	Occupational Exposure Limits		CAS-No.	EC-No.
		MAC value mg/m <sup>3</sup> / TSEL value	Hazard Class		
Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	>= 30 - < 50	No data available		64742-49-0	265-151-9
molybdenum disulphide	>= 10 - < 20	MPC-TWA: 1 mg/m <sup>3</sup> Data Source: RU OEL	3	1317-33-5	215-263-9
		MPC-STEL: 6 mg/m <sup>3</sup> Data Source: RU OEL	3		
		MPC-TWA: 1 mg/m <sup>3</sup> Data Source: RU OEL	3		
		MPC-STEL: 6 mg/m <sup>3</sup> Data Source: RU OEL	3		
n-butyl acetate	>= 10 - < 20	MPC-TWA: 50 mg/m <sup>3</sup> Data Source: RU OEL	4	123-86-4	204-658-1
		MPC-STEL: 200 mg/m <sup>3</sup> Data Source: RU OEL	4		
Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	>= 2,5 - < 10	No data available		64742-49-0	927-241-2
xylene	>= 2,5 - < 10	MPC-TWA: 50 mg/m <sup>3</sup> Data Source: RU OEL	3	1330-20-7	215-535-7
		MPC-STEL: 150 mg/m <sup>3</sup>	3		

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		Data Source: RU OEL			
ethylbenzene	$\geq 2,5 - < 10$	MPC-TWA: 50 mg/m <sup>3</sup> Data Source: RU OEL  MPC-STEL: 150 mg/m <sup>3</sup> Data Source: RU OEL	4          4	100-41-4	202-849-4
butan-1-ol	$\geq 3 - < 10$	MPC-TWA: 10 mg/m <sup>3</sup> Data Source: RU OEL  MPC-STEL: 30 mg/m <sup>3</sup> Data Source: RU OEL	3          3	71-36-3	200-751-6

**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.  
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.  
Get medical attention immediately.
- If swallowed : Move the victim to fresh air.  
If accidentally swallowed obtain immediate medical attention.

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If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
Do NOT induce vomiting.  
Rinse mouth with water.  
Never give anything by mouth to an unconscious person.  
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.  
Causes skin irritation.  
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.

Notes to physician : Treat symptomatically.

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**5. FIREFIGHTING MEASURES**

**Flammable properties**

Flash point : < -30,00 °C  
Method: DIN 51755, closed cup

Ignition temperature : No data available

Upper explosion limit / Upper flammability limit : 10,4 %(V)

Lower explosion limit / Lower flammability limit : 0,6 %(V)

Flammability (solid, gas) : Not applicable

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : High volume water jet

Specific hazards during : Do not let product enter drains.

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- |   |   |   |
|---|---|---|
| firefighting                                  |   | Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.   |
| Hazardous combustion products                 | : | Carbon oxides<br>Sulphur oxides<br>Metal oxides   |
| Further information                           | : | Standard procedure for chemical fires.<br>Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Cool containers/tanks with water spray. |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus.<br>Use personal protective equipment.<br>Exposure to decomposition products may be a hazard to health.                   |

## 6. ACCIDENTAL RELEASE MEASURES

- |   |   |  |
|---|---|--|
| Personal precautions, protective equipment and emergency procedures | : | Evacuate personnel to safe areas.<br>Use personal protective equipment.<br>Ensure adequate ventilation.<br>Remove all sources of ignition.<br>Do not breathe vapours or spray mist.<br>Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.<br>Refer to protective measures listed in sections 7 and 8. |
| Environmental precautions   | : | Do not allow contact with soil, surface or ground water.<br>Prevent further leakage or spillage if safe to do so.<br>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).<br>Non-sparking tools should be used.                                    |

## 7. HANDLING AND STORAGE

- |   |   |   |
|---|---|---|
| Advice on protection against fire and explosion | : | Keep away from heat and sources of ignition.  |
| Advice on safe handling                         | : | Use only in an area containing explosion proof equipment.<br>Do not use in areas without adequate ventilation.<br>Do not breathe vapours or spray mist.<br>In case of insufficient ventilation, wear suitable respiratory equipment.<br>Avoid contact with skin and eyes. |

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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.  
Ensure all equipment is electrically grounded before beginning transfer operations.  
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.  
Do not enter areas where used or stored until adequately ventilated.  
Do not repack.  
Do not re-use empty containers.  
These safety instructions also apply to empty packaging which may still contain product residues.  
Keep container closed when not in use.

Conditions for safe storage : Store in original container.  
Keep container closed when not in use.  
Keep in a cool place away from oxidizing agents.  
Keep in a dry, cool and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Store in accordance with the particular national regulations.  
Keep in properly labelled containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Data Source
molybdenum disulphide	1317-33-5	MPC-TWA (aerosol)	1 mg/m <sup>3</sup>	RU OEL (2011-07-12)
	Further information: Class 3 - Dangerous			
		MPC-STEEL (aerosol)	6 mg/m <sup>3</sup>	RU OEL (2011-07-12)
	Further information: Class 3 - Dangerous			
		MPC-TWA (aerosol)	1 mg/m <sup>3</sup> (Molybdenum)	RU OEL (2021-02-03)
	Further information: Class 3 - Moderately dangerous			
		MPC-STEEL (aerosol)	6 mg/m <sup>3</sup> (Molybdenum)	RU OEL (2021-02-03)
	Further information: Class 3 - Moderately dangerous			
n-butyl acetate	123-86-4	STEEL	150 ppm 723 mg/m <sup>3</sup>	2019/1831/E U

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				(2019-10-31)
		TWA	50 ppm 241 mg/m3	2019/1831/E U (2019-10-31)
		MPC-TWA (vapour and/or gas)	50 mg/m3	RU OEL (2021-02-03)
Further information: Class 4 - Low hazard				
		MPC-STEEL (vapour and/or gas)	200 mg/m3	RU OEL (2021-02-03)
Further information: Class 4 - Low hazard				
xylene	1330-20-7	TWA	50 ppm 221 mg/m3	2000/39/EC (2000-06-16)
		STEEL	100 ppm 442 mg/m3	2000/39/EC (2000-06-16)
		MPC-TWA (vapour and/or gas)	50 mg/m3	RU OEL (2021-02-03)
Further information: Class 3 - Moderately dangerous				
		MPC-STEEL (vapour and/or gas)	150 mg/m3	RU OEL (2021-02-03)
Further information: Class 3 - Moderately dangerous				
ethylbenzene	100-41-4	TWA	100 ppm 442 mg/m3	2000/39/EC (2000-06-16)
		STEEL	200 ppm 884 mg/m3	2000/39/EC (2000-06-16)
		MPC-TWA (vapour and/or gas)	50 mg/m3	RU OEL (2021-02-03)
Further information: Class 4 - Low hazard				
		MPC-STEEL (vapour and/or gas)	150 mg/m3	RU OEL (2021-02-03)
Further information: Class 4 - Low hazard				
butan-1-ol	71-36-3	MPC-TWA (vapour and/or gas)	10 mg/m3	RU OEL (2021-02-03)
Further information: Class 3 - Moderately dangerous				
		MPC-STEEL (vapour and/or gas)	30 mg/m3	RU OEL (2021-02-03)
Further information: Class 3 - Moderately dangerous				

**Engineering measures**

- : Use only in an area equipped with explosion proof exhaust ventilation.  
Handle only in a place equipped with local exhaust (or other appropriate exhaust).



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**Personal protective equipment**

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Recommended Filter type:  
Organic gas and low boiling vapour type

Hand protection  
Material : Fluorinated rubber  
Break through time : > 10 min  
Protective index : Class 1

Remarks : Wear protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Protective measures : 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, hands and any exposed skin thoroughly after handling.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Colour : black

Odour : solvent-like

Odour Threshold : No data available

pH : Not applicable  
substance/mixture is non-polar/aprotic

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Melting point/range	:	No data available
Boiling point/boiling range	:	57 °C (1.013 hPa)
Flash point	:	< -30,00 °C  Method: DIN 51755, closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	10,4 %(V)
Lower explosion limit / Lower flammability limit	:	0,6 %(V)
Vapour pressure	:	149 hPa (20 °C)
Relative vapour density	:	No data available
Relative density	:	0,98 (20 °C) Reference substance: Water The value is calculated
Density	:	0,98 g/cm <sup>3</sup> (20 °C)
Bulk density	:	No data available
Solubility(ies) Water solubility	:	immiscible
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	:	< 7 mm <sup>2</sup> /s ( 40 °C)
Explosive properties	:	Not explosive

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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.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No decomposition if stored and applied as directed.

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**

**Product:**

Acute oral toxicity	:	Acute toxicity estimate: > 5.000 mg/kg Method: Calculation method
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Remarks: Effects due to ingestion may include:

Symptoms: Central nervous system depression

Acute inhalation toxicity	:	Acute toxicity estimate: > 40 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method
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Remarks: Respiration of solvent vapour may cause dizziness.  
Harmful by inhalation.

Symptoms: Inhalation may provoke the following symptoms:  
Dizziness, Drowsiness, Vomiting, Fatigue, Vertigo, Central

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nervous system depression

Acute dermal toxicity : Acute toxicity estimate: > 5.000 mg/kg  
Method: Calculation method

Symptoms: Redness, Local irritation

**Components:**

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 25,2 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity

**molybdenum disulphide:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 16.000 mg/kg

**n-butyl acetate:**

Acute oral toxicity : LD50 (Rat): 10.768 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 21 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity

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Acute dermal toxicity : LD50 (Rabbit): > 17.600 mg/kg

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

**xylene:**

Acute oral toxicity : LD50 (Rat): 4.300 mg/kg

Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : Assessment: The component/mixture is moderately toxic after single contact with skin.

**ethylbenzene:**

Acute oral toxicity : LD50 (Rat): 3.500 mg/kg

Acute inhalation toxicity : LC50 (Rat): 17,2 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 15.400 mg/kg

**butan-1-ol:**

Acute oral toxicity : LD50 (Rat): 2.292 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat): > 17,76 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): 3.430 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

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**Skin corrosion/irritation**

**Product:**

Remarks : Irritating to skin.

**Components:**

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Species : Rabbit  
Assessment : Irritating to skin.  
Method : OECD Test Guideline 404  
Result : Irritating to skin.  
GLP : yes

**molybdenum disulphide:**

Assessment : No skin irritation  
Result : No skin irritation

**n-butyl acetate:**

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : Repeated exposure may cause skin dryness or cracking.

**xylene:**

Species : Rabbit  
Assessment : Irritating to skin.  
Result : Irritating to skin.

**ethylbenzene:**

Species : Rabbit  
Result : Mild skin irritation

**butan-1-ol:**

Species : Rabbit  
Assessment : Irritating to skin.  
Result : Irritating to skin.

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**Serious eye damage/eye irritation**

**Product:**

Remarks : Risk of serious damage to eyes.

**Components:**

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

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

**molybdenum disulphide:**

Result	: No eye irritation
Assessment	: No eye irritation

**n-butyl acetate:**

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

**xylene:**

Species	: Rabbit
Result	: Irritating to eyes.
Assessment	: Irritating to eyes.

**ethylbenzene:**

Species	: Rabbit
Result	: No eye irritation
Assessment	: No eye irritation

**butan-1-ol:**

Species	: Rabbit
Result	: Risk of serious damage to eyes.
Assessment	: Risk of serious damage to eyes.
Method	: OECD Test Guideline 405
GLP	: yes

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**Respiratory or skin sensitisation**

**Product:**

Remarks : This information is not available.

**Components:**

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

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

**molybdenum disulphide:**

Assessment	: Does not cause skin sensitisation.
Result	: Does not cause skin sensitisation.

**n-butyl acetate:**

Test Type	: Maximisation Test
Exposure routes	: Dermal
Species	: Guinea pig
Assessment	: Does not cause skin sensitisation.
Method	: OECD Test Guideline 406
Result	: Does not cause skin sensitisation.

**xylene:**

Species	: Mouse
Assessment	: Did not cause sensitisation on laboratory animals.
Method	: OECD Test Guideline 429
Result	: Did not cause sensitisation on laboratory animals.

**ethylbenzene:**

Assessment	: Does not cause skin sensitisation.
Result	: Does not cause skin sensitisation.

**butan-1-ol:**

Species	: Mouse
Assessment	: Did not cause sensitisation on laboratory animals.
Method	: OECD Test Guideline 429



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Result : Did not cause sensitisation on laboratory animals.

**Germ cell mutagenicity**

**Product:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

**Components:**

**molybdenum disulphide:**

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

**n-butyl acetate:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster cells  
Method: OECD Test Guideline 473  
Result: negative

Genotoxicity in vivo : Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 474  
Result: negative

Germ cell mutagenicity - Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects., Animal testing did not show any mutagenic effects.

**xylene:**

Germ cell mutagenicity - Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**ethylbenzene:**

Germ cell mutagenicity - : Tests on bacterial or mammalian cell cultures did not show

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Assessment mutagenic effects.

## Carcinogenicity

**Product:**

Remarks : No data available

### Components:

**molybdenum disulphide:**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

**n-butyl acetate:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**xylene:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**ethylbenzene:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

## Reproductive toxicity

**Product:**

Effects on fertility	: Remarks: No data available
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Effects on foetal development	: Remarks: No data available
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**Components:**

**n-butyl acetate:**

Effects on fertility	:	Test Type: Two-generation study
		Species: Rat
		Application Route: inhalation (vapour)
		General Toxicity - Parent: NOAEC: 750 mg/l
		General Toxicity F1: NOAEC: 750 mg/l
		General Toxicity F2: NOAEC: 750 mg/l
		Method: OECD Test Guideline 416
		Result: Embryotoxic effects and adverse effects on the offspring were detected.

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Reproductive toxicity - Assessment : - Fertility -  
No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.  
- Teratogenicity -  
No toxicity to reproduction

**xylene:**

Reproductive toxicity - Assessment : - Fertility -  
No toxicity to reproduction  
- Teratogenicity -  
No toxicity to reproduction

**ethylbenzene:**

Reproductive toxicity - Assessment : - Fertility -  
No toxicity to reproduction  
- Teratogenicity -  
No toxicity to reproduction

**STOT - single exposure**

**Components:**

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

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

**molybdenum disulphide:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

**n-butyl acetate:**

Exposure routes : Inhalation  
Target Organs : Central nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

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

**xylene:**

Exposure routes : Inhalation  
Target Organs : Respiratory system  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

**ethylbenzene:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

**butan-1-ol:**

Exposure routes : Inhalation  
Target Organs : Respiratory system  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Exposure routes : Inhalation  
Target Organs : Central nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

**STOT - repeated exposure**

**Components:**

**molybdenum disulphide:**

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

**n-butyl acetate:**

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

**xylene:**

Exposure routes : Inhalation  
Target Organs : Central nervous system  
Assessment : The substance or mixture is classified as specific target organ

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toxicant, repeated exposure, category 2.

Exposure routes : Ingestion  
Target Organs : Liver, Kidney  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

**ethylbenzene:**

Exposure routes : Inhalation  
Target Organs : hearing organs  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

**butan-1-ol:**

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:**

**n-butyl acetate:**

Species : Rat  
NOAEL : 125 mg/kg  
Application Route : Oral

**Aspiration toxicity**

**Product:**

May be fatal if swallowed and enters airways.

**Components:**

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

May be fatal if swallowed and enters airways.

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**n-butyl acetate:**

No aspiration toxicity classification

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

May be fatal if swallowed and enters airways.

**xylene:**

May be fatal if swallowed and enters airways.

**ethylbenzene:**

May be fatal if swallowed and enters airways.

**butan-1-ol:**

No aspiration toxicity classification

**Further information**

**Product:**

Remarks : Risks of irreversible effects after a single exposure.  
Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.  
Possible risk of irreversible effects.

**Components:**

**molybdenum disulphide:**

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

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**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Product:**

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

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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:**

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Toxicity to fish :    LC50 (Oncorhynchus mykiss (rainbow trout)): 10 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other :    EC50 (Daphnia magna (Water flea)): 4,5 mg/l  
aquatic invertebrates                      Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic :    EC50 (Pseudokirchneriella subcapitata (green algae)): 3,1  
plants    mg/l  
Exposure time: 72 h  
Test Type: static test

**Ecotoxicology Assessment**

Acute aquatic toxicity :    Toxic to aquatic life.

Chronic aquatic toxicity :    Toxic to aquatic life with long lasting effects.

**molybdenum disulphide:**

Toxicity to fish :    LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other :    EC50 (Daphnia magna (Water flea)): > 100 mg/l  
aquatic invertebrates                      Exposure time: 48 h

Toxicity to algae/aquatic :    EC50 (Pseudokirchneriella subcapitata (green algae)): > 100  
plants    mg/l

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Exposure time: 72 h

**n-butyl acetate:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 18 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 44 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 397 mg/l  
Exposure time: 72 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 23 mg/l  
Exposure time: 21 d  
Test Type: Reproduction Test  
GLP: yes

Toxicity to microorganisms : EC50 (Tetrahymena pyriformis): 356 mg/l  
Exposure time: 40 h  
Test Type: Growth inhibition

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

**Ecotoxicology Assessment**

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

**xylene:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2,6 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3,82 mg/l  
Exposure time: 48 h  
Test Type: flow-through test

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 2,2 mg/l



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Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): > 1,3 mg/l  
Exposure time: 56 d  
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (Daphnia magna (Water flea)): 2,90 mg/l  
Exposure time: 21 d  
Test Type: static test  
Method: OECD Test Guideline 211  
GLP: yes

Toxicity to microorganisms : EC50 (activated sludge): > 157 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209

**ethylbenzene:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,2 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,4 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae/aquatic plants : EC50 (Skeletonema costatum (marine diatom)): 4,6 mg/l  
Exposure time: 72 h  
Test Type: static test

Toxicity to fish (Chronic toxicity) : NOEC: 3,3 mg/l  
Exposure time: 96 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Ceriodaphnia dubia (water flea)): 0,96 mg/l  
Exposure time: 7 d  
Test Type: semi-static test

**butan-1-ol:**

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Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1.376 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.328 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)): 225 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 4,1 mg/l  
Exposure time: 21 d  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
GLP: yes

Toxicity to microorganisms : EC10 (Pseudomonas putida): 2.476 mg/l  
Exposure time: 17 h  
Test Type: static test  
Method: DIN 38 412 Part 8

**Persistence and degradability**

**Product:**

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

**Components:**

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Result: rapidly biodegradable  
Biodegradation: 90,35 %  
Exposure time: 28 d

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**n-butyl acetate:**

Biodegradability : Primary biodegradation  
Result: rapidly biodegradable  
Biodegradation: 83 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Biodegradability : Result: rapidly biodegradable

**xylene:**

Biodegradability : Result: Readily biodegradable.

**ethylbenzene:**

Biodegradability : Result: Readily biodegradable.

**butan-1-ol:**

Biodegradability : aerobic  
Inoculum: activated sludge  
Result: rapidly biodegradable  
Biodegradation: > 92 %  
Exposure time: 28 d

**Bioaccumulative potential**

**Product:**

Bioaccumulation : Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).  
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

**Components:**

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Partition coefficient: n- : log Pow: 3,4 - 5,2  
octanol/water

**n-butyl acetate:**

Partition coefficient: n- : log Pow: 2,3 (25 °C)

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octanol/water                      pH: 7  
    Method: OECD Test Guideline 117  
    GLP: yes

**Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha:**

Bioaccumulation                      :    Remarks: No data available

Partition coefficient: n-                      :    Remarks: No data available  
octanol/water

**xylene:**

Bioaccumulation                      :    Bioconcentration factor (BCF): 25,9

Partition coefficient: n-                      :    log Pow: 2,77 - 3,15  
octanol/water

**ethylbenzene:**

Bioaccumulation                      :    Bioconcentration factor (BCF): 1

Partition coefficient: n-                      :    log Pow: 3,6 (20 °C)  
octanol/water

**butan-1-ol:**

Partition coefficient: n-                      :    log Pow: 1 (25 °C)  
octanol/water                                      pH: 7  
    Method: OECD Test Guideline 117  
    GLP: yes

**Mobility in soil**

**Product:**

Mobility                                      :    Remarks: No data available

Distribution among                      :    Remarks: No data available  
environmental compartments

**Other adverse effects**

**Product:**

Additional ecological                      :    Toxic to aquatic life with long lasting effects.  
information

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**Components:**

**n-butyl acetate:**

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

**xylene:**

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

**ethylbenzene:**

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

**Hygienic standards:**

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

Components	Air	Water	Soil	Data Source
Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated 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
molybdenum disulphide	Concentration that provides admissible (acceptable) levels of risk when exposed to at least 24 hours - average daily: 0,02 mg/m <sup>3</sup> (Molybdenum) Limiting health hazard indicator: resorptive Hazard class: Class 3 - moderately dangerous	No data available	No data available	List 1
n-butyl acetate	Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes -	Maximum Permissible Concentration: 0,3 Milligrams per cubed decimeter	No data available	List 1 List 4 List 5

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	<p>maximum one-time: 0,1 mg/m<sup>3</sup> Limiting health hazard indicator: reflectory Hazard class: Class 4 - low hazard</p>	<p>Limiting health hazard indicator: sanitary and toxicological effects Hazard class: 4 Maximum Allowable Concentration: 0,1 mg/l Limiting health hazard indicator: general sanitary Hazard class: Class 4 - low hazard</p>		
Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	No data available	<p>Maximum Permissible Concentration: 0,05 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3</p>	No data available	List 5
xylene	<p>Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time: 0,2 mg/m<sup>3</sup> Limiting health hazard indicator: reflectory Hazard class: Class 3 - moderately dangerous Concentration that provides permissible (acceptable) levels of risk for chronic (at least 1 year) exposure - average daily: 0,1 mg/m<sup>3</sup> Limiting health hazard indicator: reflectory Hazard class: Class 3 - moderately dangerous</p>	<p>Maximum Allowable Concentration: 0,05 mg/l Limiting health hazard indicator: organoleptic; changes the smell of water Hazard class: Class 3 - moderately dangerous</p>	<p>Maximum allowable concentration considering the background: 0,3 mg/kg Limiting health hazard indicator: Translocation</p>	<p>List 1 List 4 List 7</p>

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ethylbenzene	Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time: 0,02 mg/m <sup>3</sup> Limiting health hazard indicator: reflectory Hazard class: Class 3 - moderately dangerous Concentration that provides permissible (acceptable) levels of risk for chronic (at least 1 year) exposure - average daily: 0,04 mg/m <sup>3</sup> Limiting health hazard indicator: reflectory Hazard class: Class 3 - moderately dangerous	Maximum Permissible Concentration: 0,001 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3 Maximum Allowable Concentration: 0,002 mg/l Limiting health hazard indicator: organoleptic; changes the smell of water Hazard class: Class 4 - low hazard	No data available	List 1 List 4 List 5
butan-1-ol	Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time: 0,1 mg/m <sup>3</sup> Limiting health hazard indicator: reflectory Hazard class: Class 3 - moderately dangerous	Maximum Permissible Concentration: 0,03 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3 Maximum Permissible Concentration: 0,5 Milligrams per cubed decimeter Limiting health hazard indicator: sanitary and toxicological effects Hazard class: 4 Maximum Allowable Concentration: 0,1 mg/l Limiting health hazard indicator:	No data available	List 1 List 4 List 5

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		sanitary- toxicological Hazard class: Class 2 - highly dangerous		
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For explanation of abbreviations see section 16.

### 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

- Waste from residues : The product should not be allowed to enter drains, water courses or the soil.  
Do not dispose of with domestic refuse.  
Dispose of as hazardous waste in compliance with local and national regulations.
- Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.  
Dispose of waste product or used containers according to local regulations.
- The following Waste Codes are only suggestions:
- Waste Code : used product, unused product  
08 01 11\*, waste paint and varnish containing organic solvents or other hazardous substances
- uncleaned packagings  
15 01 10\*, packaging containing residues of or contaminated by hazardous substances

### 14. TRANSPORT INFORMATION

**ADR**

- UN number : UN 1263  
Proper shipping name : PAINT  
Class : 3  
Packing group : II  
Labels : 3  
Hazard Identification Number : 33  
Tunnel restriction code : (D/E)  
Environmentally hazardous : yes

**IATA-DGR**

- UN/ID No. : UN 1263  
Proper shipping name : Paint



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Class : 3  
Packing group : II  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 364  
Packing instruction (passenger aircraft) : 353

**IMDG-Code**

UN number : UN 1263  
Proper shipping name : PAINT  
(naphtha (petroleum), hydrotreated light)  
Class : 3  
Packing group : II  
Labels : 3  
EmS Code : F-E, S-E  
Marine pollutant : yes

**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 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).

**International Regulations**

Montreal Protocol : Not applicable

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Rotterdam Convention (Prior Informed Consent) : Not applicable

Stockholm Convention (Persistent Organic Pollutants) : Not applicable

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**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.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Skin Irrit.	: Skin irritation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
2000/39/EC	: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2019/1831/EU	: Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values
RU OEL	: Russia. Hygienic standards GN 2.2.5.1313-03 Permissible concentration (MAC) of harmful substances in the air of the working area
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
2000/39/EC / TWA	: Limit Value - eight hours
2000/39/EC / STEL	: Short term exposure limit
2019/1831/EU / TWA	: Limit Value - eight hours
2019/1831/EU / STEL	: Short term exposure limit
RU OEL / MPC-STEL	: Maximum Permissible Concentration - Short Term Exposure
RU OEL / MPC-TWA	: Maximum Permissible Concentration - Time Weighted Average
RU OEL / MPC-STEL	: Maximum Permissible Concentration - Short Term Exposure
RU OEL / MPC-TWA	: 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 4	: SanPiN 1.2.3685-21 Table 3.13, Table 3.15, Table 3.16 & Table 3.17 Maximum permissible concentrations (MPC) of chemicals in the water of drinking systems of centralized, including hot, and non-centralized water supply, water of underground and surface water bodies of domestic drinking

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- and cultural and domestic water use, water of swimming pools, water parks
- List 5 : Order of the Russian Federal Fisheries Agency "Standards of maximum permissible concentrations of harmful substances in fishery water bodies"
- List 7 : SanPiN 1.2.3685-21 Table 4.1, Table 4.2, Table 4.7, Table 4.8, Table 4.9 & Table 4.10 Maximum allowable concentration (MPC) and approximate allowable concentration (APC) of chemicals in the soil

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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