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

Product name : OKS 2521

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

mcm@oks-germany.com

responsible for the SDS Material Compliance Management

: +7 495 628 1687

Emergency telephone

number +49 8142 3051 517

Recommended use of the chemical and restrictions on use

Recommended use Anticorrosion additive

Restrictions on use Restricted to professional users.

2. HAZARDS IDENTIFICATION

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

Aerosols Category 1

Acute toxicity (Inhalation) Category 5

Acute toxicity (Dermal) Category 5

Skin irritation Category 2

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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Hazard pictograms







Signal word : Danger

Hazard statements : H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated. H304 May be fatal if swallowed and enters airways.

H313 + H333 May be harmful in contact with skin or if inhaled.

H315 Causes skin irritation.

H412 Harmful 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.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON

CENTER/ doctor.

P331 Do NOT induce vomiting.

Storage:

P410 + P412 Protect from sunlight. Do not expose to

temperatures exceeding 50 °C/ 122 °F.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical nature : Active agent with propellant and solvent.

Metal powder

Components

Chemical name	Concentration (% w/w)	Occupational Exposure Limits		CAS-No.	EC-No.
		MAC value mg/m3 / TSEL value	Hazard Class		
xylene	>= 30 - < 50	MPC-TWA: 50 mg/m3 Data Source: RU OEL	3	1330-20-7	215-535-7

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		MPC-STEL: 150 mg/m3 Data Source: RU OEL	3		
propane	>= 20 - < 30	No data available		74-98-6	200-827-9
butane	>= 10 - < 20	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		
ethylbenzene	>= 2,5 - < 10	MPC-TWA: 50 mg/m3 Data Source: RU OEL	4	100-41-4	202-849-4
		MPC-STEL: 150 mg/m3 Data Source: RU OEL	4		
isobutane	>= 1 - < 10	No data available		75-28-5	200-857-2
acetone	>= 1 - < 10	MPC-TWA: 200 mg/m3 Data Source: RU OEL	4	67-64-1	200-662-2
		MPC-STEL: 800 mg/m3 Data Source: RU OEL	4		
zinc powder — zinc dust (stabilised)	>= 0,25 - < 1	No data available		7440-66-6	231-175-3

4. FIRST AID MEASURES

If inhaled : Obtain medical attention.

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Remove person to fresh air. If signs/symptoms continue, get

medical attention.

Keep patient warm and at rest.

If unconscious, place in recovery position and seek medical

advice

Keep respiratory tract clear.

If breathing is irregular or stopped, administer artificial

respiration.

In case of skin contact : Take off all contaminated clothing immediately.

Wash off immediately with soap and plenty of water. Get medical attention immediately if irritation develops and

persists.

Wash clothing before reuse.

Thoroughly clean shoes before reuse.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 10 minutes.

If eye irritation persists, consult a specialist.

If swallowed : Move the victim to fresh air.

Keep respiratory tract clear. Do NOT induce vomiting. Obtain medical attention. Rinse mouth with water.

Aspiration hazard if swallowed - can enter lungs and cause

damage.

Most important symptoms and effects, both acute and

delayed

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.

5. FIREFIGHTING MEASURES

Flammable properties

Flash point : -60 °C

Method: Abel-Pensky

Not applicable

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Ignition temperature : > 200 °C

Upper explosion limit / Upper :

flammability limit

10,9 %(V)

Lower explosion limit / Lower :

flammability limit

1,1 %(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.

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 : 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 : Contain spillage, and then collect with non-combustible

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containment and cleaning up 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 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 with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Data Source
xylene	1330-20-7	TWA	50 ppm 221 mg/m3	2000/39/EC (2000-06-16)
		STEL	100 ppm 442 mg/m3	2000/39/EC (2000-06-16)
		MPC-TWA (vapour	50 mg/m3	RU OEL (2021-02-03)

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I	ı	ond/or goo)	I	1
	Frontle en inferio	and/or gas)	Na danatak dan sasa	
	Further inforr		Moderately danger	
		MPC-STEL	150 mg/m3	RU OEL
		(vapour		(2021-02-03)
		and/or gas)		
			Moderately danger	
butane	106-97-8	MPC-TWA	300 mg/m3	RU OEL
		(vapour		(2021-02-03)
		and/or gas)		
	Further inform	mation: Class 4 -	Low hazard	
		MPC-STEL	900 mg/m3	RU OEL
		(vapour		(2021-02-03)
		and/or gas)		
	Further inform	mation: Class 4 -	Low hazard	
ethylbenzene	100-41-4	TWA	100 ppm	2000/39/EC
			442 mg/m3	(2000-06-16)
		STEL	200 ppm	2000/39/EC
			884 mg/m3	(2000-06-16)
		MPC-TWA	50 mg/m3	RU OEL
		(vapour	Ŭ	(2021-02-03)
		and/or gas)		,
	Further inform	mation: Class 4 -	Low hazard	•
		MPC-STEL	150 mg/m3	RU OEL
		(vapour		(2021-02-03)
		and/or gas)		,
	Further inform	mation: Class 4 -	Low hazard	'
acetone	67-64-1	TWA	500 ppm	2000/39/EC
			1.210 mg/m3	(2000-06-16)
		MPC-TWA	200 mg/m3	RU OEL
		(vapour		(2021-02-03)
		and/or gas)		(===: == ==)
	Further inform	mation: Class 4 -	Low hazard	I
		MPC-STEL	800 mg/m3	RU OEL
		(vapour	300g/1110	(2021-02-03)
		and/or gas)		(2021 02 00)
	Further inform		Low hazard	1
	i ditioi iilloli	Further information: Class 4 - Low hazard		

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).

Personal protective equipment

Respiratory protection : Respirator with combination filter for vapour/particulate (EN

141)

Short term only

Filter type : ABEK-P3-filter

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates



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that exposures are within recommended exposure guidelines.

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 : Safety glasses with side-shields

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 : aerosol

Colour : silver

Odour : characteristic

Odour Threshold : No data available

pH : Not applicable

substance/mixture is non-soluble (in water)

Melting point/range : No data available

Boiling point/boiling range : -161 °C

(1.013 hPa) Not applicable

Flash point : -60 °C

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Method: Abel-Pensky

Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : Extremely flammable aerosol.

Self-ignition : No data available

Upper explosion limit / Upper

flammability limit

10,9 %(V)

Lower explosion limit / Lower :

flammability limit

1,1 %(V)

Vapour pressure : 5.500 hPa (20 °C)

not determined

Relative vapour density : No data available

Relative density : 0,66 (20 °C)

Reference substance: Water The value is calculated

Density : 0,66 g/cm3 (20 °C)

Bulk density : No data available

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Auto-ignition temperature : > 200 °C

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : < 20,5 mm2/s (40 °C)

Explosive properties : Not explosive

Oxidizing properties : No data available

Sublimation point : No data available

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Metal corrosion rate : Not corrosive to metals

10. STABILITY AND REACTIVITY

Reactivity : No hazards to be specially mentioned.

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid : Heat, flames and sparks.

Strong sunlight for prolonged periods.

Risk of receptacle bursting.

Incompatible materials : water

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

Remarks: Harmful if swallowed.

Acute inhalation toxicity : Acute toxicity estimate: 24,31 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Method: Calculation method

Remarks: Harmful by inhalation.

Symptoms: Inhalation may provoke the following symptoms:,

Respiratory disorder

Acute dermal toxicity : Acute toxicity estimate: 2.626 mg/kg

Method: Calculation method

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Symptoms: Redness, Local irritation

Components:

xylene:

Acute inhalation toxicity : LC50 (Rat): 21 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Assessment: The component/mixture is moderately toxic after

short term inhalation.

Acute dermal toxicity : LD50 Dermal (Rat): > 1.000 mg/kg

Assessment: The component/mixture is moderately toxic after

single contact with skin.

butane:

Acute inhalation toxicity : LC50 (Rat): 658 mg/l

Exposure time: 4 h Test atmosphere: gas

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

isobutane:

Acute inhalation toxicity : LC50 (Rat): 658 mg/l

Exposure time: 4 h
Test atmosphere: gas

acetone:

Acute oral toxicity : LD50 Oral (Rat): 5.800 mg/kg

zinc powder - zinc dust (stabilised):

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Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 401

GLP: yes

Assessment: The substance or mixture has no acute oral

toxicity

Acute inhalation toxicity : LC50 (Rat): > 5,41 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

GLP: yes

Assessment: The substance or mixture has no acute

inhalation toxicity

Skin corrosion/irritation

Product:

Remarks : Irritating to skin.

Components:

xylene:

Result : Severe skin irritation

ethylbenzene:

Species : Rabbit

Result : Mild skin irritation

zinc powder — zinc dust (stabilised):

Species : Rabbit

Assessment : No skin irritation Result : No skin irritation

Serious eye damage/eye irritation

Product:

Remarks : Irritating to eyes.

Components:

ethylbenzene:

Species : Rabbit

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Result : No eye irritation
Assessment : No eye irritation

acetone:

Species : Rabbit Result : Eye irritation

zinc powder - zinc dust (stabilised):

Species : Rabbit

Result : No eye irritation

Exposure time : 24 h

Assessment : No eye irritation

Method : OECD Test Guideline 405

GLP : yes

Respiratory or skin sensitisation

Product:

Remarks : This information is not available.

Components:

ethylbenzene:

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

zinc powder - zinc dust (stabilised):

Species : Guinea pig

Assessment : Did not cause sensitisation on laboratory animals.

Method : OECD Test Guideline 406

Result : Did not cause sensitisation on laboratory animals.

GLP : yes

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

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Components:

ethylbenzene:

Germ cell mutagenicity -

Assessment

Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

zinc powder - zinc dust (stabilised):

Germ cell mutagenicity -

Assessment

Tests on bacterial or mammalian cell cultures did not show

mutagenic effects.

Carcinogenicity

Product:

Remarks No data available

Components:

ethylbenzene:

Carcinogenicity -

: Not classifiable as a human carcinogen.

Assessment

zinc powder - zinc dust (stabilised):

Carcinogenicity -

Assessment

: No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Product:

Effects on fertility Remarks: No data available

Effects on foetal

development

Remarks: No data available

Components:

ethylbenzene:

Reproductive toxicity -

- Fertility -

Assessment

No toxicity to reproduction

- Teratogenicity -

No toxicity to reproduction

zinc powder - zinc dust (stabilised):

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Reproductive toxicity -

: - Fertility -Assessment

No toxicity to reproduction

- Teratogenicity -

No effects on or via lactation

STOT - single exposure

Components:

ethylbenzene:

Assessment The substance or mixture is not classified as specific target

organ toxicant, single exposure.

acetone:

Exposure routes Inhalation

Assessment May cause drowsiness or dizziness.

STOT - repeated exposure

Components:

ethylbenzene:

Exposure routes : Inhalation **Target Organs** hearing organs

Assessment The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 2.

Repeated dose toxicity

Product:

Remarks This information is not available.

Aspiration toxicity

Product:

May be fatal if swallowed and enters airways.

May be fatal if swallowed and enters airways.

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Components:

xylene:

May be fatal if swallowed and enters airways.

ethylbenzene:

May be fatal if swallowed and enters airways.

zinc powder - zinc dust (stabilised):

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.

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

plants

Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

Components:

ethylbenzene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,2 mg/l

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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

zinc powder — zinc dust (stabilised):

Toxicity to fish : LC50 (Oncorhynchus kisutch (coho salmon)): 0,727 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,937 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

M-Factor (Acute aquatic

toxicity)

1

M-Factor (Chronic aquatic

toxicity)

: 1

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

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Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Physico-chemical

removability

Remarks: No data available

Components:

ethylbenzene:

Biodegradability : Result: Readily biodegradable.

acetone:

Biodegradability : Result: rapidly biodegradable

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:

propane:

Partition coefficient: n-

octanol/water

log Pow: 2,36

butane:

Partition coefficient: n-

log Pow: 2,89

octanol/water

Method: OECD Test Guideline 107

ethylbenzene:

Bioaccumulation : Bioconcentration factor (BCF): 1

Partition coefficient: n-

octanol/water

: log Pow: 3,6 (20 °C)

isobutane:

Partition coefficient: n- : log Pow: 2,88

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octanol/water Method: OECD Test Guideline 107

acetone:

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-

octanol/water

: log Pow: 0,2

Mobility in soil

Product:

Mobility : Remarks: No data available

Distribution among : Remarks

environmental compartments

Remarks: No data available

Other adverse effects

Product:

Additional ecological

information

: Harmful to aquatic life with long lasting effects.

Components:

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
xylene	Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time: 0,2 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class 3 - moderately dangerous Concentration that provides permissible	Maximum Allowable Concentration: 0,05 mg/l Limiting health hazard indicator: organoleptic; changes the smell of water Hazard class: Class 3 - moderately dangerous	Maximum allowable concentration considering the background: 0,3 mg/kg Limiting health hazard indicator: Translocation	List 1 List 4 List 7



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	(acceptable) levels of risk for chronic (at least 1 year) exposure - average daily: 0,1 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class 3 - moderately dangerous			
propane	No data available	Maximum Permissible Concentration: 0,05 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3	No data available	List 5
butane	Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time: 200 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class 4 - low hazard	Maximum Permissible Concentration: 0,05 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3	No data available	List 1 List 5
ethylbenzene	Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time: 0,02 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class 3 - moderately dangerous Concentration that provides permissible (acceptable) levels of risk for chronic (at	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;	No data available	List 1 List 4 List 5

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	least 1 year) exposure - average daily: 0,04 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class 3 - moderately dangerous	changes the smell of water Hazard class: Class 4 - low hazard		
isobutane	Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time: 15 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class 4 - low hazard	Maximum Permissible Concentration: 0,05 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3	No data available	List 1 List 5
acetone	Concentration that prevents irritation, reflex reactions, odors when exposed to 20-30 minutes - maximum one-time: 0,35 mg/m3 Limiting health hazard indicator: reflectory Hazard class: Class 4 - low hazard	Maximum Permissible Concentration: 0,05 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3 Maximum Allowable Concentration: 2,2 mg/l Limiting health hazard indicator: general sanitary Hazard class: Class 3 - moderately dangerous	No data available	List 1 List 4 List 5
zinc powder — zinc dust (stabilised)	No data available	Maximum Permissible Concentration: 0,01 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3	ODC value: 55 mg/kg ODC value: 110 mg/kg ODC value: 220 mg/kg Approximately permissible concentration	List 4 List 5 List 6 List 7

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		Maximum Permissible Concentration: 0,05 Milligrams per cubed decimeter Limiting health hazard indicator: toxic Hazard class: 3 Maximum Allowable Concentration: 5 mg/l Limiting health hazard indicator: sanitary- toxicological Hazard class: Clas 3 - moderately dangerous	Hazard class: Class 1 - extremely dangerous Approximately permissible concentration considering the background: 110 mg/kg Hazard class: Class 1 -

For explanation of abbreviations see section 16.



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13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not dispose of with domestic refuse.

Dispose of as hazardous waste in compliance with local and

national regulations.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as

the unused product.

Offer empty spray cans to an established disposal company. Pressurized container: Do not pierce or burn, even after use.

The following Waste Codes are only suggestions:

Waste Code : unused product, packagings not completely emptied

16 05 04*, gases in pressure containers (including halons)

containing hazardous substances

14. TRANSPORT INFORMATION

ADR

UN number : UN 1950 Proper shipping name : AEROSOLS

Class : 2

Packing group : Not assigned by regulation

Labels : 2.1 Tunnel restriction code : (D)

IATA-DGR

UN/ID No. : UN 1950

Proper shipping name : Aerosols, flammable

Class : 2.1

Packing group : Not assigned by regulation

Labels : Flammable Gas

Packing instruction (cargo

aircraft)

: 203

Packing instruction :

(passenger aircraft)

203

IMDG-Code

UN number : UN 1950 Proper shipping name : AEROSOLS

Class : 2.²

Packing group : Not assigned by regulation

Labels : 2.1 EmS Code : F-D, S-U Marine pollutant : no

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

Not applicable for product as supplied.

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Special precautions for user

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

15. REGULATORY INFORMATION

National regulatory information

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

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

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

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

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

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

International Regulations

Montreal Protocol : Not applicable

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.



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

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

GOST 19433-88 Dangerous goods. Classification and labeling.

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

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

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

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

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

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

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

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

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

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

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

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

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

Carriage of dangerous goods, International maritime dangerous goods (IMDG) code.

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

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

Agreement on International Goods Transport by Rail (SMGS).

UN Recommendations on the Transport of Dangerous Goods. Typical rules. Twenty-second revised edition. United Nations, New York and Geneva, 2021.

Montreal Protocol (Ozone Depleting Substances)

Stockholm Convention (Persistent Organic Pollutants)

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 Irrit. : Eye irritation
Flam. Gas : Flammable gases
Flam. Liq. : Flammable liquids
Press. Gas : Gases under pressure

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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

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

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 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 6 : GN 2.1.7.2511-09 Guiding permissible concentration (GPC) of

chemical substances in soil

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

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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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