

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : OKS 511

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-stance/Mixture : Lubricant

Recommended restrictions on use : Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : OKS Spezialschmierstoffe GmbH
Ganghoferstr. 47
D-82216 Maisach-Gernlinden
Tel.: +49 8142 3051 500
Fax.: +49 8142 3051 599

E-mail address of person responsible for the SDS : mcm@oks-germany.com
National contact :

1.4 Emergency telephone number

Emergency telephone number : +49 8142 3051 517
Warszawa: +48 22 619 66 54

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.
Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

Long-term (chronic) aquatic hazard, Category 3 H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.
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.
P280 Wear protective gloves/ 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.

Storage:
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

Hazardous components which must be listed on the label:

Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha butan-1-ol

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Active substance with propellant
Solvent
Silicone resin
graphite
Molybdenum disulfide

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration limits M-Factor Notes	Concentration (% w/w)
Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	64742-49-0 265-151-9 649-328-00-1	Flam. Liq.2; H225 Skin Irrit.2; H315 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	Note P	$\geq 10 - < 20$
isobutane	75-28-5 200-857-2 601-004-00-0 01-2119485395-27-XXXX	Flam. Gas1; H220 Press. GasCompr. Gas; H280	Note U (table 3.1), Note C	$\geq 10 - < 20$
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics	Not Assigned 927-241-2 01-2119471843-32-xxxx	Flam. Liq.3; H226 Asp. Tox.1; H304 Aquatic Chronic3; H412		$\geq 2,5 - < 10$
xylene	1330-20-7 215-535-7 601-022-00-9 01-2119488216-32-XXXX	Flam. Liq.3; H226 Acute Tox.4; H332 Acute Tox.4; H312 Skin Irrit.2; H315 Eye Irrit.2; H319 STOT SE3; H335 STOT RE2; H373 STOT RE2; H373 Asp. Tox.1; H304	Note C	$\geq 1 - < 10$
ethylbenzene	100-41-4 202-849-4	Flam. Liq.2; H225 Acute Tox.4; H332		$\geq 1 - < 2,5$

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version
2.2

Revision Date:
13.06.2019

Date of last issue: 10.08.2018
Date of first issue: 09.07.2016

Print Date:
13.06.2019

	601-023-00-4 01-2119489370-35-XXXX	STOT RE2; H373 Asp. Tox.1; H304 Aquatic Chronic3; H412		
butan-1-ol	71-36-3 200-751-6 603-004-00-6 01-2119484630-38-XXXX	Flam. Liq.3; H226 Acute Tox.4; H302 Skin Irrit.2; H315 Eye Dam.1; H318 STOT SE3; H336 STOT SE3; H335		>= 1 - < 3
Substances with a workplace exposure limit :				
butane	106-97-8 203-448-7 601-004-00-0	Flam. Gas1; H220 Press. GasCompr. Gas; H280	Note U (table 3.1), Note C	>= 20 - < 30
propane	74-98-6 200-827-9 601-003-00-5 01-2119486944-21-XXXX	Flam. Gas1; H220 Press. GasCompr. Gas; H280	Note U (table 3.1)	>= 10 - < 20
molybdenum disulphide	1317-33-5 215-263-9			>= 1 - < 10
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29-XXXX	Flam. Liq.3; H226 STOT SE3; H336		>= 1 - < 10
Graphite	7782-42-5 231-955-3			>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled : Call a physician or poison control centre immediately.
Remove person to fresh air. If signs/symptoms continue, get

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

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.
Keep respiratory tract clear.
Do NOT induce vomiting.
Rinse mouth with water.
Aspiration hazard if swallowed - can enter lungs and cause damage.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : 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.

- Risks : Central nervous system depression
Risk of product entering the lungs on vomiting after ingestion.
Health injuries may be delayed.
Causes skin irritation.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : ABC powder

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Fire may cause evolution of:
Carbon oxides
Metal oxides
Sulphur oxides

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.

5.3 Advice for firefighters

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.

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Evacuate personnel to safe areas.
Ensure adequate ventilation.
Remove all sources of ignition.
Do not breathe vapours or spray mist.
Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
Refer to protective measures listed in sections 7 and 8.
Only qualified personnel equipped with suitable protective equipment may intervene.

6.2 Environmental precautions

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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.
Non-sparking tools should be used.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

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 exposure - obtain special instructions before use.
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.

Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : 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.

7.3 Specific end use(s)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version 2.2 Revision Date: 13.06.2019 Date of last issue: 10.08.2018 Print Date: 13.06.2019
Date of first issue: 09.07.2016

Specific use(s) : Specific instructions for handling, not required.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
butane	106-97-8	NDS	1.900 mg/m ³	PL OEL (2018-07-07)
		NDSch	3.000 mg/m ³	PL OEL (2018-07-07)
propane	74-98-6	NDS	1.800 mg/m ³	PL OEL (2018-07-07)
molybdenum di-sulphide	1317-33-5	NDS	4 mg/m ³ (Molybdenum)	PL OEL (2018-07-07)
		NDSch	10 mg/m ³ (Molybdenum)	PL OEL (2018-07-07)
n-butyl acetate	123-86-4	NDS	240 mg/m ³	PL OEL (2018-07-07)
		NDSch	720 mg/m ³	PL OEL (2018-07-07)
xylene	1330-20-7	TWA	50 ppm 221 mg/m ³	2000/39/EC (2000-06-16)
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 442 mg/m ³	2000/39/EC (2000-06-16)
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		NDS	100 mg/m ³	PL OEL (2018-07-07)
Further information	Skin			
		NDSch	200 mg/m ³	PL OEL (2018-07-07)
Further information	Skin			
ethylbenzene	100-41-4	TWA	100 ppm 442 mg/m ³	2000/39/EC (2000-06-16)
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	200 ppm 884 mg/m ³	2000/39/EC (2000-06-16)
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		NDS	200 mg/m ³	PL OEL (2018-07-07)
Further information	Skin			
		NDSch	400 mg/m ³	PL OEL (2018-07-07)
Further information	Skin			
butan-1-ol	71-36-3	NDS	50 mg/m ³	PL OEL (2018-07-07)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version 2.2 Revision Date: 13.06.2019 Date of last issue: 10.08.2018
Date of first issue: 09.07.2016

Print Date:
13.06.2019

Further information	Skin			
		NDSch	150 mg/m ³	PL OEL (2018-07-07)
Further information	Skin			
Graphite	7782-42-5	NDS (inhalable fraction)	4 mg/m ³	PL OEL (2018-07-07)
Further information	Inhalable fraction - the fraction of aerosol penetrating through the nose and mouth, which after deposit in the respiratory tract poses a threat to health, determined in accordance with standard PN-EN 481.			
		NDS (respirable fraction)	1 mg/m ³	PL OEL (2018-07-07)
Further information	Respirable fraction - the fraction of aerosol that penetrates into the respiratory tract, which poses a threat to the health of the deposit in the area of gas exchange, determined in accordance with standard PN-EN 481.			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	Workers	Inhalation	Long-term systemic effects	1300 mg/m ³
	Workers	Inhalation	Long-term local effects	840 mg/m ³
	Workers	Inhalation	Acute local effects	1100 mg/m ³
n-butyl acetate	Workers	Inhalation	Long-term systemic effects	300 mg/m ³
	Workers	Inhalation	Acute systemic effects	600 mg/m ³
	Workers	Dermal	Long-term local effects	11 mg/cm ²
xylene	Workers	Inhalation	Long-term exposure, Systemic effects	77 mg/m ³
	Workers	Inhalation	Short-term exposure, Systemic effects	289 mg/m ³
	Workers	Skin contact	Long-term exposure, Systemic effects	180 mg/kg
	Consumers	Inhalation	Long-term exposure, Systemic effects	14,8 mg/m ³
	Consumers	Inhalation	Short-term exposure, Systemic effects	174 mg/m ³
	Consumers	Ingestion	Long-term exposure, Systemic effects	1,6 mg/kg
ethylbenzene	Workers	Skin contact	Long-term systemic effects	180 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	77 mg/m ³
butan-1-ol	Workers	Inhalation	Acute local effects	293 mg/m ³
	Workers	Inhalation	Long-term local effects	310 mg/m ³

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version 2.2 Revision Date: 13.06.2019 Date of last issue: 10.08.2018
Date of first issue: 09.07.2016

Print Date:
13.06.2019

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
n-butyl acetate	Fresh water	0,18 mg/l
	Marine water	0,018 mg/l
	Microbiological Activity in Sewage Treatment Systems	35,6 mg/l
	Fresh water sediment	0,981 mg/kg
	Marine sediment	0,0981 mg/kg
	Soil	0,09 mg/kg
xylene	Fresh water	0,327 mg/l
	Marine water	0,327 mg/l
	Fresh water sediment	12,46 mg/l
	Marine sediment	12,46 mg/l
	Soil	2,31 mg/kg
ethylbenzene	Fresh water	0,1 mg/l
	Marine water	0,01 mg/l
	Intermittent use/release	0,1 mg/l
	Microbiological Activity in Sewage Treatment Systems	9,6 mg/l
	Fresh water sediment	13,7 mg/kg
	Marine sediment	1,37 mg/kg
	Soil	2,68 mg/kg
Oral	20 mg/kg	
butan-1-ol	Fresh water	0,082 mg/l
	Marine water	0,008 mg/l
	Intermittent use/release	2,25 mg/l
	Microbiological Activity in Sewage Treatment Systems	2476 mg/l
	Fresh water sediment	0,324 mg/kg dry weight (d.w.)
	Marine sediment	0,032 mg/kg dry weight (d.w.)
	Soil	0,017 mg/kg dry weight (d.w.)

8.2 Exposure controls

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

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection

Material : butyl-rubber
Protective index : Class 1

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version 2.2	Revision Date: 13.06.2019	Date of last issue: 10.08.2018 Date of first issue: 09.07.2016	Print Date: 13.06.2019
----------------	------------------------------	---	---------------------------

- Remarks : Wear protective gloves. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. 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.
- 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
- Filter type : Filter type A-P
- Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance : aerosol
- Colour : black
- Odour : characteristic
- Odour Threshold : No data available
- pH : Not applicable
- Melting point/range : No data available
- Boiling point/boiling range : -161 °C
(1.013 hPa)
- Flash point : -60 °C
Method: Abel-Pensky
- Evaporation rate : No data available
- Flammability (solid, gas) : Extremely flammable aerosol.
- Upper explosion limit : 10,9 %(V)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version 2.2	Revision Date: 13.06.2019	Date of last issue: 10.08.2018 Date of first issue: 09.07.2016	Print Date: 13.06.2019
----------------	------------------------------	---	---------------------------

Lower explosion limit : 0,6 %(V)

Vapour pressure : 3.600 hPa (20 °C)

Relative vapour density : No data available

Density : 0,70 g/cm³
(20 °C)

Bulk density : No data available

Solubility(ies)
Water solubility : insoluble

Solubility in other solvents : No data available

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

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : No data available

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

Explosive properties : Not explosive

Oxidizing properties : No data available

9.2 Other information

Sublimation point : No data available

Metal corrosion rate : Not corrosive to metals

Self-ignition : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Remarks: Effects due to ingestion may include:

Symptoms: Central nervous system depression

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Remarks: Respiration of solvent vapour may cause dizziness.

Symptoms: Inhalation may provoke the following symptoms:
Respiratory disorder, Dizziness, Drowsiness, Vomiting, Fatigue, Vertigo, Central nervous system depression

Acute dermal toxicity : Acute toxicity estimate: > 2.000 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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

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

isobutane:

Acute inhalation toxicity : LC50 (Rat): 658 mg/l
Exposure time: 4 h
Test atmosphere: gas

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

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

butane:

Acute inhalation toxicity : LC50 (Rat): 658 mg/l
Exposure time: 4 h
Test atmosphere: gas

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

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

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

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Result: Repeated exposure may cause skin dryness or cracking.

xylene:

Species: Rabbit
Assessment: Irritating to skin.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

Result: Irritating to skin.

ethylbenzene:

Species: Rabbit

Result: Mild skin irritation

butan-1-ol:

Species: Rabbit

Assessment: Irritating to skin.

Result: Irritating to skin.

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.

Serious eye damage/eye irritation

Product:

Result: Risk of serious damage to eyes.

Remarks: Irritating to eyes.

Remarks: Risk of serious damage to eyes.

Components:

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

Species: Rabbit

Assessment: No eye irritation

Method: OECD Test Guideline 405

Result: No eye irritation

GLP: yes

xylene:

Species: Rabbit

Assessment: Irritating to eyes.

Result: Irritating to eyes.

ethylbenzene:

Species: Rabbit

Assessment: No eye irritation

Result: No eye irritation

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

butan-1-ol:

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

molybdenum disulphide:

Assessment: No eye irritation
Result: No eye irritation

n-butyl acetate:

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

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

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.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

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

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.

Germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

Components:

xylene:

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

ethylbenzene:

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

molybdenum disulphide:

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

n-butyl acetate:

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

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version 2.2	Revision Date: 13.06.2019	Date of last issue: 10.08.2018 Date of first issue: 09.07.2016	Print Date: 13.06.2019
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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.

Carcinogenicity

Product:

Remarks: No data available

Components:

xylene:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

ethylbenzene:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

molybdenum disulphide:

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

n-butyl acetate:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Reproductive toxicity

Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

Components:

xylene:

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

ethylbenzene:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

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

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.

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

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.

molybdenum disulphide:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

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.

STOT - repeated exposure

Components:

xylene:

Exposure routes: Inhalation

Target Organs: Central nervous system

Assessment: The substance or mixture is classified as specific target organ 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.

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.

Repeated dose toxicity

Product:

Remarks: This information is not available.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

Components:

n-butyl acetate:

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

Aspiration toxicity

Product:

May be fatal if swallowed and enters airways.

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.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

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

n-butyl acetate:

No aspiration toxicity classification

Further information

Product:

Remarks: Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.

Components:

molybdenum disulphide:

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

SECTION 12: Ecological information

12.1 Toxicity

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 : 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 aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 4,5 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 3,1 mg/l
Exposure time: 72 h
Test Type: static test

Ecotoxicology Assessment

- Short-term (acute) aquatic hazard : Toxic to aquatic life.
- Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Ecotoxicology Assessment

- Long-term (chronic) aquatic hazard : Harmful to aquatic life with long lasting effects.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

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 : EC50 (Pseudokirchneriella subcapitata (green algae)): 2,2 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes
- Toxicity to microorganisms : EC50 (activated sludge): > 157 mg/l
Exposure time: 3 h
Test Type: Respiration inhibition
Method: OECD Test Guideline 209
GLP:
- Toxicity to fish (Chronic toxicity) : NOEC: > 1,3 mg/l
Exposure time: 56 d
Species: Oncorhynchus mykiss (rainbow trout)
Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50: 2,90 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: static test
Method: OECD Test Guideline 211
GLP: yes

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 : 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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

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

butan-1-ol:

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

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

molybdenum disulphide:

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

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

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l
Exposure time: 72 h

n-butyl acetate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 18 mg/l

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

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

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

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

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

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Biodegradability : Result: rapidly biodegradable

xylene:

Biodegradability : Result: Readily biodegradable.

ethylbenzene:

Biodegradability : Result: Readily biodegradable.

butan-1-ol:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

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

n-butyl acetate:

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

12.3 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-octanol/water : log Pow: 3,4 - 5,2

isobutane:

Partition coefficient: n-octanol/water : log Pow: 2,88
Method: OECD Test Guideline 107

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics:

Bioaccumulation : Remarks: No data available

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

xylene:

Bioaccumulation : Bioconcentration factor (BCF): 25,9

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

ethylbenzene:

Bioaccumulation : Bioconcentration factor (BCF): 1

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

butan-1-ol:

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

butane:

Partition coefficient: n-octanol/water : log Pow: 2,89
Method: OECD Test Guideline 107

propane:

Partition coefficient: n-octanol/water : log Pow: 2,36

n-butyl acetate:

Partition coefficient: n-octanol/water : log Pow: 2,3 (25 °C)
pH: 7
Method: OECD Test Guideline 117
GLP: yes

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

Components:

xylene:

Assessment : Non-classified PBT substance. Non-classified vPvB substance.

ethylbenzene:

Assessment : Non-classified PBT substance. Non-classified vPvB substance.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

n-butyl acetate:

Assessment : Non-classified PBT substance. Non-classified vPvB substance.

12.6 Other adverse effects

Product:

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not dispose of with domestic refuse.
Dispose of as hazardous waste in compliance with local and national regulations.

Waste codes should be assigned by the user based on the application for which the product was used.

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:

SECTION 14: Transport information

14.1 UN number

ADR : UN 1950

IMDG : UN 1950

IATA : UN 1950

14.2 UN proper shipping name

ADR : AEROSOLS

IMDG : AEROSOLS

IATA : Aerosols, flammable

14.3 Transport hazard class(es)

ADR : 2

IMDG : 2.1

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

IATA : 2.1

14.4 Packing group

ADR

Packing group : Not assigned by regulation
Classification Code : 5F
Labels : 2.1
Tunnel restriction code : (D)

IMDG

Packing group : Not assigned by regulation
Labels : 2.1
EmS Code : F-D, S-U

IATA (Cargo)

Packing instruction (cargo aircraft) : 203
Packing instruction (LQ) : Y203
Packing group : Not assigned by regulation
Labels : Division 2.1 - Flammable gases

IATA (Passenger)

Packing instruction (passenger aircraft) : 203
Packing instruction (LQ) : Y203
Packing group : Not assigned by regulation
Labels : Division 2.1 - Flammable gases

14.5 Environmental hazards

ADR

Environmentally hazardous : no

IMDG

Marine pollutant : no

IATA (Passenger)

Environmentally hazardous : no

IATA (Cargo)

Environmentally hazardous : no

14.6 Special precautions for user

No special precautions required.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High : This product does not contain sub-

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

Concern for Authorisation (Article 59). : stances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha (29, 28)

P2

P5c

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P3a	FLAMMABLE AEROSOLS	150 t	500 t
34	Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams), (d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)	2.500 t	25.000 t

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 83,69 %
Volatile CMR compounds: 14,53 %

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

Act of 25 February 2011 on the Chemical Substances and Their Mixtures (consolidated text Dz. U. 2015, item 1203).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Official Journal of the European Union L 353 from 31.12.2008) with further adaptation to technical progress (ATP 1-7).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (Official Journal of the European Union L 396 from 30.12.2006, as amended).

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Ordinance of the Minister of Health of 10 August 2012 concerning the criteria and procedure of classification of chemical substances and their mixtures (consolidated text Dz. U. of 2015., pos. 208).

Ordinance of the Minister of Economy, Labour and Social Policy of 21st December 2005 concerning the basic requirements for personal protective equipment (Dz. U. Nr. 259, item 2173).

Ordinance of the Minister of Labour and Social Policy of 12 June 2018 concerning the highest allowable concentrations and levels of the agents harmful for health in the workplace (OJ 2018 pos 1286)

Ordinance of the Minister of Health of 2nd February 2011 concerning tests and measurement of agents harmful for health in the workplace (Dz. U. Nr. 33, item 166).

Ordinance of the Minister of Health of 30th December 2004 on the health and safety of workers related to chemical agents at work (Dz. U. from 2005, Nr. 11, item 86, as amended).

Act of 14 December 2012. on Waste (Journal of Laws of 2013. pos. 21, as amended).

Act of 13 June 2013. On packaging and packaging waste Journal. U. of 2013. Item. 888, as amended).

Ordinance of the Minister of Environment of 9th December 2014 on Waste Catalog (Dz. U. 2014 item 1923).

Ordinance of the Minister of Environment on the requirements for carrying out the process of thermal treatment of waste and how to deal with waste produced in the process. (Dz. U. of 2016., Pos. 108)

Act of 19 August 2011 on transport of dangerous goods (Dz. U. Nr. 227, item 1367, as amended).

Government Statement of 26 July 2005 on enforcing of changes Annexes A and B of European Agreement concerning international transport of dangerous goods by road (ADR) (Dz. U. Nr. 178, item 1481, as amended).

Ordinance of the Minister of Health of 20th April 2012 concerning labeling of containers of dangerous substances and dangerous mixtures and some mixtures ((consolidated text) Dz. U. z 2015 nr. 0 poz. 450).

Ordinance of the Minister of Health of 11th June 2012 concerning categories of dangerous

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

substances and dangerous mixtures for which containers must be fitted with child-resistant fastenings and a tactile warning of danger (Dz. U. from 2012, item 688 as amended).

15.2 Chemical safety assessment

This information is not available.

SECTION 16: Other information

Full text of H-Statements

- H220 : Extremely flammable gas.
- H225 : Highly flammable liquid and vapour.
- H226 : Flammable liquid and vapour.
- H280 : Contains gas under pressure; may explode if heated.
- H302 : Harmful if swallowed.
- H304 : May be fatal if swallowed and enters airways.
- H312 : Harmful in contact with skin.
- H315 : Causes skin irritation.
- H318 : Causes serious eye damage.
- H319 : Causes serious eye irritation.
- H332 : Harmful if inhaled.
- H335 : May cause respiratory irritation.
- H336 : May cause drowsiness or dizziness.
- H373 : May cause damage to organs through prolonged or repeated exposure if inhaled.
- H411 : Toxic to aquatic life with long lasting effects.
- H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

- Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- Note P : The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260- P262-P301 + P310-P331 shall apply. This note applies only to certain complex oil-derived sub-

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL



OKS 511

Version	Revision Date:	Date of last issue: 10.08.2018	Print Date:
2.2	13.06.2019	Date of first issue: 09.07.2016	13.06.2019

Note U (table 3.1) : stances in Part 3.
: When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned: Press. Gas (Comp.) Press. Gas (Liq.) Press. Gas (Ref. Liq.) Press. Gas (Diss.) Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Aerosol 1	H222, H229
Skin Irrit. 2	H315
Eye Dam. 1	H318
STOT SE 3	H336
Asp. Tox. 1	H304

Classification procedure:

Based on product data or assessment
Calculation method
Based on product data or assessment
Calculation method
Based on product data or assessment

SAFETY DATA SHEET

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Aquatic Chronic 3

H412

Calculation method

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