

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

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

1.1 Product identifier

Product name : OKS 491

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

Use of the Sub-
stance/Mixture : Lubricant

Recommended restrictions : Restricted to professional users.
on use

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
info@oks-germany.com

E-mail address of person : mcm@oks-germany.com
responsible for the SDS Material Compliance Management

National contact :

1.4 Emergency telephone number

Emergency telephone num- : +49 8142 3051 517
ber 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.

Specific target organ toxicity - single ex- H336: May cause drowsiness or dizziness.
posure, Category 3, Central nervous
system

Specific target organ toxicity - single ex- H335: May cause respiratory irritation.
posure, Category 3, Respiratory system

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)






OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

Aspiration hazard, Category 1	H304: May be fatal if swallowed and enters airways.
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. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH066 Repeated exposure may cause skin dryness or cracking.
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.

Hazardous components which must be listed on the label:

Hydrocarbons, C9, aromatics

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

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.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Active substance with propellant
Mineral oil.

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	specific concentration limit M-Factor Notes Acute toxicity estimate	Concentration (% w/w)
Hydrocarbons, C9, aromatics	918-668-5 01-2119455851-35-XXXX	Flam. Liq.3; H226 STOT SE3; H335 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411; EUH066	Note P	>= 20 - < 25
Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	64742-49-0 927-241-2 649-328-00-1 01-2119471843-32-xxxx	Flam. Liq.3; H226 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic3; H412; EUH066	Note P	>= 10 - < 20
Substances with a workplace exposure limit :				
Asphalt	8052-42-4 232-490-9 01-2119480172-44-	Not classified		>= 30 - < 50

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version 3.2 Revision Date: 10.11.2022 Date of last issue: 21.01.2021 Print Date: 11.11.2022
Date of first issue: 09.07.2016

	XXXX			
butane	106-97-8 203-448-7 601-004-00-0 01-2119474691-32-XXXX	Flam. Gas1A; H220 Press. GasCompr. Gas; H280	Note U (table 3.1), Note C	$\geq 10 - < 20$
propane	74-98-6 200-827-9 601-003-00-5 01-2119486944-21-XXXX	Flam. Gas1A; H220 Press. GasCompr. Gas; H280	Note U (table 3.1)	$\geq 1 - < 10$
Graphite	7782-42-5 231-955-3	Not classified		$\geq 1 - < 10$

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 medical attention.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off all contaminated clothing immediately.
Get medical attention immediately if irritation develops and persists.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
Wash skin thoroughly with soap and water or use recognized skin cleanser.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
Seek medical advice.
- If swallowed : Move the victim to fresh air.
If accidentally swallowed obtain immediate medical attention.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

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
Can be absorbed through skin.
Risk of product entering the lungs on vomiting after ingestion.
Health injuries may be delayed.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

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 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

5.3 Advice for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

for firefighters 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.

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 contact with skin and eyes.
For personal protection see section 8.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

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)

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
Asphalt	8052-42-4	NDS (inhalable fraction)	5 mg/m ³	PL OEL (2018-07-07)
		NDSch (inhalable fraction)	10 mg/m ³	PL OEL (2018-07-07)
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)
Naphtha (petroleum), hydrotreated light; Low boiling point hydrogen treated naphtha	64742-49-0	NDS	500 mg/m ³	PL OEL (2018-07-07)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version 3.2 Revision Date: 10.11.2022 Date of last issue: 21.01.2021 Print Date: 11.11.2022
Date of first issue: 09.07.2016

		NDSch	1.500 mg/m ³	PL OEL (2018-07-07)
propane	74-98-6	NDS	1.800 mg/m ³	PL OEL (2018-07-07)
Graphite	7782-42-5	NDS (inhalable fraction)	4 mg/m ³	PL OEL (2018-07-07)
		NDS (respirable fraction)	1 mg/m ³	PL OEL (2018-07-07)

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Hydrocarbons, C9, aromatics	Workers	Skin contact	Long-term systemic effects	25 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	150 mg/m ³
Graphite	Workers	Inhalation	Long-term local effects	1,2 mg/m ³

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

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.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

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.

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : aerosol

Colour : black

Odour : characteristic

Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : < -20 °C (1.013 hPa)

Flammability (solid, gas) : Extremely flammable aerosol.

Upper explosion limit / Upper flammability limit : 12,5 %(V)

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

Flash point : < -20 °C
Method: DIN 51755, closed cup

Auto-ignition temperature : > 235 °C

Decomposition temperature : No data available

pH : Not applicable
substance/mixture is non-soluble (in water)

Viscosity

Viscosity, dynamic : No data available

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

Solubility(ies)

Water solubility : insoluble

Solubility in other solvents : No data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

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

Vapour pressure : 3.700 hPa (20 °C)

Relative density : 0,756 (20 °C)
Reference substance: Water
The value is calculated

Density : 0,76 g/cm³
(20 °C)

Bulk density : No data available

Relative vapour density : No data available

9.2 Other information

Explosives : Not explosive

Oxidizing properties : No data available

Self-ignition : not auto-flammable

Metal corrosion rate : Not corrosive to metals

Evaporation rate : No data available

Sublimation point : 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

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

10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.
Strong sunlight for prolonged periods.
Risk of receptacle bursting.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

- Acute oral toxicity : Remarks: Effects due to ingestion may include:
Symptoms: Central nervous system depression
- Acute inhalation toxicity : Remarks: Respiration of solvent vapour may cause dizziness.
Irritating to respiratory system.
Symptoms: Inhalation may provoke the following symptoms:,
Respiratory disorder, Local irritation, Respiratory disorders,
Dizziness, Drowsiness, Vomiting, Fatigue, Vertigo, Central
nervous system depression
- Acute dermal toxicity : Remarks: Prolonged or repeated skin contact with liquid may
cause defatting resulting in drying, redness and possible blistering.
Symptoms: Skin disorders

Components:

Hydrocarbons, C9, aromatics:

- Acute oral toxicity : LD50 (Rat): 4.200 mg/kg
Method: OECD Test Guideline 401
- Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
Method: OECD Test Guideline 402
Assessment: The component/mixture is minimally toxic after
single contact with skin.

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

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

Asphalt:

- Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401
- Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
Method: OECD Test Guideline 402

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

Assessment: The substance or mixture has no acute dermal toxicity

butane:

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

Graphite:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 401
Assessment: The substance or mixture has no acute oral toxicity

Skin corrosion/irritation

Product:

Remarks : This information is not available.

Components:

Hydrocarbons, C9, aromatics:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Mild skin irritation

Result : Repeated exposure may cause skin dryness or cracking.

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

Result : Repeated exposure may cause skin dryness or cracking.

Asphalt:

Species : Rabbit
Assessment : No skin irritation
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Product:

Remarks : Contact with eyes may cause irritation.

Components:

Hydrocarbons, C9, aromatics:

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

Asphalt:

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

Respiratory or skin sensitisation

Product:

Remarks : This information is not available.

Components:

Hydrocarbons, C9, aromatics:

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

Asphalt:

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:

Hydrocarbons, C9, aromatics:

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

Carcinogenicity

Product:

Remarks : No data available

Components:

Hydrocarbons, C9, aromatics:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

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:

Hydrocarbons, C9, aromatics:

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

STOT - single exposure

Components:

Hydrocarbons, C9, aromatics:

Exposure routes : Inhalation
Target Organs : Respiratory system
Assessment : May cause respiratory irritation.

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

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

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

Asphalt:

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

STOT - repeated exposure

Components:

Hydrocarbons, C9, aromatics:

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

Asphalt:

Assessment : The substance or mixture is not classified as specific target

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

organ toxicant, repeated exposure.

Repeated dose toxicity

Product:

Remarks : This information is not available.

Components:

Hydrocarbons, C9, aromatics:

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

Aspiration toxicity

Product:

May be fatal if swallowed and enters airways.

Components:

Hydrocarbons, C9, aromatics:

May be fatal if swallowed and enters airways.

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

May be fatal if swallowed and enters airways.

Asphalt:

No aspiration toxicity classification

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

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
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

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/aquatic plants : Remarks: No data available
- Toxicity to microorganisms : Remarks: No data available

Components:

Hydrocarbons, C9, aromatics:

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

Ecotoxicology Assessment

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

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

Ecotoxicology Assessment

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

12.2 Persistence and degradability

Product:

- Biodegradability : Remarks: No data available
- Physico-chemical removability : Remarks: No data available

Components:

Hydrocarbons, C9, aromatics:

- Biodegradability : Result: rapidly biodegradable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

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

Biodegradability : Result: rapidly biodegradable

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:

Hydrocarbons, C9, aromatics:

Partition coefficient: n-octanol/water : log Pow: 3,7 - 4,5

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

Bioaccumulation : Remarks: No data available

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

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

Graphite:

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

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:

Asphalt:

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

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 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:

Waste Code : unused product, packagings not completely emptied
16 05 04*, gases in pressure containers (including halons)
containing hazardous substances

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

SECTION 14: Transport information

14.1 UN number or ID number

ADN	:	UN 1950
ADR	:	UN 1950
RID	:	UN 1950
IMDG	:	UN 1950
IATA	:	UN 1950

14.2 UN proper shipping name

ADN	:	AEROSOLS
ADR	:	AEROSOLS
RID	:	AEROSOLS
IMDG	:	AEROSOLS
IATA	:	Aerosols, flammable

14.3 Transport hazard class(es)

ADN	:	2
ADR	:	2
RID	:	2
IMDG	:	2.1
IATA	:	2.1

14.4 Packing group

ADN		
Packing group	:	Not assigned by regulation
Classification Code	:	5F
Labels	:	2.1

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

RID		
Packing group	:	Not assigned by regulation
Classification Code	:	5F
Hazard Identification Number	:	23
Labels	:	2.1

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

IATA (Cargo)

Packing instruction (cargo aircraft) : 203
Packing instruction (LQ) : Y203
Packing group : Not assigned by regulation
Labels : Flammable Gas

IATA (Passenger)

Packing instruction (passenger aircraft) : 203
Packing instruction (LQ) : Y203
Packing group : Not assigned by regulation
Labels : Flammable Gas

14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 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.

14.7 Maritime transport in bulk according to IMO instruments

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 - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). (EU SVHC) : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

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

Regulation (EC) No 1005/2009 on substances that de- : Not applicable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

plete the ozone layer
(EC 1005/2009)

Regulation (EU) 2019/1021 on persistent organic pollutants (recast)
(EU POP) : Not applicable

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

: P2

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P3a FLAMMABLE AEROSOLS

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)

18 Liquefied extremely flammable gases (including LPG) and natural gas

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 64,3 %

Other regulations:

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 chemical substances and their mixtures (i.e. Journal of Laws of 2019, No. 0, item 1225)

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 adapta-

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

tion to technical progress (ATP).

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) 2020/878

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 (Dz.U 2018 pos 1286, with later amendments).

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 wraz z późn. zm.).

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 Climate of 2nd January 2020 on Waste Catalog (Dz. U. 2020 item 10).

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 18 February 2019 on enforcing of changes Annexes A and B of Agreement concerning international transport of dangerous goods by road (ADR) (Dz. U. 2019, item 769).

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 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

EUH066	:	Repeated exposure may cause skin dryness or cracking.
H220	:	Extremely flammable gas.
H226	:	Flammable liquid and vapour.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

H280 : Contains gas under pressure; may explode if heated.
H304 : May be fatal if swallowed and enters airways.
H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.
H411 : Toxic to aquatic life with long lasting effects.
H412 : Harmful to aquatic life with long lasting effects.
EUH066 : Repeated exposure may cause skin dryness or cracking.

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 harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.

Note U (table 3.1) : 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).

PL OEL : Poland. Occupational exposure limits for airborne toxic substances

PL OEL / NDS : Maximal Admissible Concentration

PL OEL / NDSch : Maximal Admissible Temporary Concentration

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; 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 car-

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - PL
(Commission Regulation (EU) 2020/878)



OKS 491

Version	Revision Date:	Date of last issue: 21.01.2021	Print Date:
3.2	10.11.2022	Date of first issue: 09.07.2016	11.11.2022

rying 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; TECL - Thailand Existing Chemicals 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
STOT SE 3	H336
STOT SE 3	H335
Asp. Tox. 1	H304
Aquatic Chronic 3	H412

Classification procedure:

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

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