

# SAFETY DATA SHEET

## GREASE AK 2

Version: 1.0  
Issue date: 2024-10-28

according to Regulation No. 1907/2006 (REACH) and Commission Regulation (EU) 2020/878

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

#### 1.1 Product identifier

Chemical name/ trade name: **GREASE AK 2**Producer: **OMA CZ, a.s.**  
Address: **Borová 103, 47127, Stráž pod Ralskem,**

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

Intended use: Plastic grease for lubricating sliding and rolling bearings with an operating temperature of -30 to 130 °C. It has good resistance to oxidation, corrosion, water and mechanical stability.

Uses advised against: The use should be limited to those listed above.

#### 1.3 Details of the supplier of the safety data sheet

Supplier of SDS: OMA CZ, a.s.  
Address: Stráž pod Ralskem, 47127, Borová 103  
Identification No.: 25406761  
Tel: +420 487 851 016  
www: www.omacz.cz  
Responsible person for this SDS: OMA CZ, a.s., laborator@omacz.cz

#### 1.4 Emergency telephone number

Toxicology Information Centre, Na Bojišti 1, 120 00 Prague 2. Emergency telephone: +420 224 91 92 93 or +420 224 91 54 02, www.tis-cz.cz

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to the EC Regulation No. 1272/2008 (CLP):

The mixture is not classified as hazardous according to Regulation No. 1272/2008.

#### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]:

Hazard pictogram(s): None.  
Signal word(s): None.  
Contain: -  
Hazard statement(s): None.  
Precautionary statement(s): None.  
Supplemental information: EUH210 Safety data sheet available on request.

#### 2.3 Other hazards

This product does not contain any substances which are classified as PBT or vPvB in a concentration of 0.1% by weight or higher.

This product does not contain SVHC in a concentration of 0.1% by weight or higher.

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Name of the component	Content (weight %)	CAS EINECS Index N° Reg. Number	Classification according to Regulation (EC) No. 1272/2008 (CLP)
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Aluminum, benzoate C16-18-fatty acids complexes	N/A	94166-87-7 303-385-6	-	-
Distillates (petroleum), hydrotreated heavy naphthenic	N/A	64742-52-5 265-155-0 649-465-00-7	Carc. 1B Note L	H350
Distillates (petroleum), hydrotreated heavy paraffinic	N/A	64742-54-7 265-157-1 649-467-00-8	Carc. 1B Note L	H350

*Note L: The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions – Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.*

For full text of H-statements see SECTION 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures****4.1.1 General advice:**

In the event of an accident or if you feel unwell, seek medical attention immediately (show this SDS or label if possible).

**4.1.2 Inhalation:**

Break Exposure. Remove victim to fresh air, keep calm and warm.

**4.1.3 Skin contact:**

Remove contaminated clothing and footwear. Wash the affected skin with water and soap. If there is irritation, seek medical attention.

**4.1.4 Eye contact:**

If the contact lenses are used, carefully remove them and start rinsing with clean water, the affected eye wide open, from the inner corner to the outside and also under the lid for at least 15 minutes. If problems persist, seek medical attention.

**4.1.5 Ingestion:**

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person or if it has cramps.

**4.1.6 Protection of first aiders:**

When providing first aid, it is essential to ensure both the rescue and the rescued safety.

**4.2 Most important symptoms and effects, both acute and delayed**

Irritation of the mucous membranes of the respiratory system may occur after inhalation of high direct concentrations of heated product. If swallowed, it may cause chemical irritation of the mouth, throat and other parts of the gastrointestinal tract. Eye contact - may cause irritation if directly exposed. Skin contact - prolonged, frequent, repeated, direct contact may cause mild irritation.

**4.3 Indication of any immediate medical attention and special treatment needed**

Symptomatic treatment.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

Suitable extinguishing media: Foam, extinguishing powder, CO2, water mist.

Unsuitable extinguishing media: Direct water flow - could cause fire to spread.

**5.2 Special hazards arising from the substance or mixture**

Combustion products and hazardous gases: smoke, carbon monoxide, carbon dioxide.

**5.3 Advice for firefighters**

Respiratory units exposed to smoke or vapors must be equipped with respiratory and eye protection devices. When using in enclosed areas, an insulating respirator must be used. Containers exposed to fire cool with water mist. Collect extinguishing water separately, and avoid its penetration into the soil and water. Chemical protective clothing (EN 469).

**SECTION 6: Accidental release measures**

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**6.1 Personal precautions, protective equipment and emergency procedures**

Wear suitable protective clothing, replace contaminated clothing. Avoid contact with skin and eyes, contamination of clothes and shoes. Ensure ventilation of the affected area. All persons who do not participate in rescue operations to a safe distance.

**6.2 Environmental precautions**

Prevent leakage into the environment, avoid ingress into surface water and sewers, soil and land. In case of leakage into the sewage system or water course, inform immediately its administrator, the police, the fire brigade or the environmental department.

**6.3 Methods and material for containment and cleaning up**

In case of leakage, localize and, if possible, absorb / remove mechanically. Residues or smaller amounts sweep / get absorbed into a suitable absorbent (universal sorbent, diatomaceous earth, soil, sand) and place in suitable containers and labeled for disposal transmit in accordance with applicable regulations.

**6.4 Reference to other sections**

See section 7, 8 a 13.

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**SECTION 7: Handling and storage**


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**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid prolonged or repeated contact with skin. Wear appropriate PPE. Use in well-ventilated areas with fresh air supply. Avoid hot spots and open flames near the product. Do not eat, drink or smoke while working. Wash hands after work. Observe the legal regulations on occupational health and safety.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in tightly closed original containers in a dry, cool and well-ventilated place. Do not store with food, beverages and feed. Do not store together with oxidizing agents. Store away from heat, sparks, open flames.

Recommended storage temperature (°C): max. 40

**7.3 Specific end use(s)**

See section 1.2.

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**SECTION 8: Exposure controls/personal protection**


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**8.1 Control parameters**
**8.1.1 Exposure limits:** According to national legislation of target country.

Substance	CAS	Permissible exposure limits (mg/m <sup>3</sup> )	Maximum permissible concentration (mg/m <sup>3</sup> )	Note
Mineral oils	-	5	10	

**Substances with Community Exposure Limits:**

Substance	CAS	Limit values (mg/m <sup>3</sup> )		Note
		OEL	STEL	
No data available.				

**8.1.2 DNEL**

Distillates (petroleum), hydrotreated heavy naphthenic (CAS: 64742-52-5)

Exposed group and route of exposure	Duration of exposure	Type of effect	Unit	Value
Workers				

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Inhalation	Long-term (chronic)	systemic	mg/m <sup>3</sup>	2.73
		local	mg/m <sup>3</sup>	5.58
Dermal	Long-term (chronic)	systemic	mg/kg bw/d	0.97
<b>Consumers</b>				
Oral	Long-term (chronic)	systemic	mg/kg bw/d	0.74

### Distillates (petroleum), hydrotreated heavy paraffinic (CAS: 64742-54-7)

Exposed group and route of exposure	Duration of exposure	Type of effect	Unit	Value
<b>Workers</b>				
Inhalation	Long-term (chronic)	systemic	mg/m <sup>3</sup>	2.73
		local	mg/m <sup>3</sup>	5.58
Dermal	Long-term (chronic)	systemic	mg/kg bw/d	0.97
<b>Consumers</b>				
Oral	Long-term (chronic)	systemic	mg/kg bw/d	0.74

### PNEC

### Aluminum, benzoate C16-18-fatty acids complexes (CAS: 94166-87-7)

Component of the environment		PNEC	Unit	Value
Terrestrial environment / organisms	Soil	PNEC <sub>soil</sub>	mg/kg soil dw	The aquatic PNECs have been derived using results from studies on the acute toxicity to no potential for bioaccumulation

### Distillates (petroleum), hydrotreated heavy naphthenic (CAS: 64742-52-5)

Component of the environment		PNEC	Unit	Value
Food chain	Predators	PNEC <sub>oral</sub>	mg/kg food	9.33

### Distillates (petroleum), hydrotreated heavy paraffinic (CAS: 64742-54-7)

Component of the environment		PNEC	Unit	Value
Food chain	Predators	PNEC <sub>oral</sub>	mg/kg food	9.33

DNEL and PNEC values for the other components of the mixture haven't been determined.

### 8.1.3 Biological limit values

Substance	CAS No:	Indicator	Limit Value
No data available.			

### 8.2 Exposure controls

#### 8.2.1 Technical measures

Technical measures and appropriate work procedures take precedence over personal protective equipment. Observe the usual hygiene principles. Do not eat, drink, smoke. Before breaks and after work wash your hands with warm water and soap.

#### 8.2.2 Individual protection measures

**Respiratory protection:**

If the exposure limits are exceeded, when using dust, fog, aerosol, use a suitable filter (type ABEK -EN 14387 - anti-gas and combined filters, type P -EN 143 - particle filters, type FFP3 / FFP2 - EN 149+A1 - Particle-based half masks; EN 142 - mouth masks).

**Hand protection:**

Protective working gloves (EN 374). Observe the manufacturer's exact instructions, including the time of use. Replace damaged gloves.

**Eye / face protection:**

Safety glasses with side-plates or facial shields (EN 166); eye and face protection for work use (EN ISO 16321).

**Skin protection:**

Working clothes (EN ISO 13688) and footwear (EN ISO 20347 and ISO 20345). Protective clothing against liquid chemicals (EN 14605+A1).

Protective clothing against chemicals (EN ISO 13034+A1; 13982-1;943-1+A1).

**8.2.3 Thermal hazards:**

No data available.

**8.2.4 Environmental exposure controls:**

Avoid unnecessary releases into the environment.

### SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

Property	Value	Method	Note
Physical state:	Paste		
Colour:	Light brown		
Odour:	Weak, specific to the lubricant		
Odour threshold:	No data available.		
pH :	No data available.		
Melting point / freezing point (°C):	No data available.		
Boiling point or initial boiling point and boiling range (°C):	> 200		
Flash point (°C):	> 220		
Evaporation rate:	No data available.		
Flammability (gases, liquids and solids):	No data available.		
Lower and upper explosion limit:	No data available.		
Vapour pressure (20 °C):	No data available.		
Vapour pressure (50 °C):	No data available.		
Relative vapour density:	No data available.		
Density and/or relative density (g/cm <sup>3</sup> , 20 °C):	0.95		
Solubility (20 °C):	Insoluble in water. soluble in hydrocarbon solvents		
Partition coefficient n-octanol/water (log value):	No data available.		
Auto-ignition temperature (°C):	No data available.		
Decomposition temperature (°C):	No data available.		
Kinematic viscosity (40°C):	No data available.		
Refractive index (20 °C):	No data available.		
Oxidising properties:	No data available.		
Explosive properties:	No data available.		
Particle characteristics:	No data available.		

**9.2 Other information**

VOC (%): No data available.

Dry matter content: No data available.

Dropping point (°C): > 220

**9.2.1 Information with regard to physical hazard classes**

The product has no physical hazards.

**9.2.2 Other safety characteristics**

No data available.

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Not expected under proper conditions of use.

**10.2 Chemical stability**

Stable under normal conditions. (to 40 °C)

**10.3 Possibility of hazardous reactions**

Dangerous reactions are not known.

**10.4 Conditions to avoid**

Direct sunlight, high temperatures, hot surfaces, open flames.

**10.5 Incompatible materials**

Strong oxidizing agents.

**10.6 Hazardous decomposition products**

Carbon oxides, hydrocarbons.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Individual components:

Aluminum, benzoate C16-18-fatty acids complexes (CAS: 94166-87-7)

Acute toxicity

Test type	Results	Exposure	Tested organisms
OECD 420, key study	> 2 000 mg/kg bw, LD50	oral: gavage	rat
OECD 402, key study	> 2 000 mg/kg bw, LD50	dermal	rat

Serious eye damage / irritation

Test type	Results	Exposure	Tested organisms
OECD 405, key study	not irritating	Eye	rabbit

Skin corrosion / irritation

Test type	Results	Exposure	Tested organisms
OECD 439, key study	not irritating	Skin	other: EPISKIN (TM) reconstructed human epidermis model

Respiratory or skin sensitisation

Test type	Results	Exposure	Tested organisms
OECD 429, key study	not sensitising	Skin	mouse

STOT - repeated exposure

Test type	Results	Exposure	Tested organisms
OECD 422, key study	> 225 mg/kg bw/day Active Ingredient, NOAEL	oral	rat

Germ cell mutagenicity

Test type	Results	Exposure	Tested organisms
key study	negative	In vitro	lymphocytes:

Reproductive toxicity

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Test type	Results	Exposure	Tested organisms
OECD 422, key study	> 225 mg/kg bw/day, NOAEL > 225 mg/kg bw/day, NOAEL	oral: gavage	rat

**Distillates (petroleum), hydrotreated heavy naphthenic (CAS: 64742-52-5)****Acute toxicity**

Test type	Results	Exposure	Tested organisms
OECD 401, key study	> 5 000 mg/kg bw, LD50	oral: gavage	rat
OECD 402, key study	> 5 000 mg/kg bw, LD50	dermal	rabbit
OECD 403, key study	2.18 mg/L air	inhalation: aerosol	rat

**Serious eye damage / irritation**

Test type	Results	Exposure	Tested organisms
OECD 405, key study	not irritating	Eye	rabbit

**Skin corrosion / irritation**

Test type	Results	Exposure	Tested organisms
OECD 404, key study	study cannot be used for classification	Skin	rabbit

**Respiratory or skin sensitisation**

Test type	Results	Exposure	Tested organisms
OECD 406, key study	not sensitising	Skin	guinea pig

**STOT - repeated exposure**

Test type	Results	Exposure	Tested organisms
OECD 408, key study	125 mg/kg bw/day (nominal), NOAEL	oral	rat
key study	ca. 220 mg/m <sup>3</sup> air (analytical), NOEL > 980 mg/m <sup>3</sup> air (analytical), NOAEL	inhalation	rat
OECD 453, key study	>= 150 mg/kg bw/day, NOAEL	dermal	mouse

**Carcinogenicity**

Test type	Results	Exposure	Tested organisms
OECD 451, key study	non-carcinogenic, other:	dermal	mouse

**Germ cell mutagenicity**

Test type	Results	Exposure	Tested organisms
OECD 474, key study	negative	oral gavage or intraperitoneal injection	mouse

**Reproductive toxicity**

Test type	Results	Exposure	Tested organisms
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OECD 421, key study	>= 1 000 mg/kg bw/day (nominal), NOAEL >= 1 000 mg/kg bw/day (nominal), NOAEL	dermal	rat
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**Distillates (petroleum), hydrotreated heavy paraffinic (CAS: 64742-54-7)****Acute toxicity**

Test type	Results	Exposure	Tested organisms
OECD 401, key study	> 5 000 mg/kg bw, LD50	oral: gavage	rat
OECD 402, key study	> 5 000 mg/kg bw, LD50	dermal	rabbit
OECD 403, key study	2.18 mg/L air	inhalation: aerosol	rat

**Serious eye damage / irritation**

Test type	Results	Exposure	Tested organisms
OECD 405, key study	not irritating	Eye	rabbit

**Skin corrosion / irritation**

Test type	Results	Exposure	Tested organisms
OECD 404, key study	study cannot be used for classification	Skin	rabbit

**Respiratory or skin sensitisation**

Test type	Results	Exposure	Tested organisms
OECD 406, key study	not sensitising	Skin	guinea pig

**STOT - repeated exposure**

Test type	Results	Exposure	Tested organisms
OECD 408, key study	125 mg/kg bw/day (nominal), NOAEL	oral	rat
OECD 412, key study	ca. 220 mg/m <sup>3</sup> air (analytical), NOEC > 980 mg/m <sup>3</sup> air (analytical), NOAEC	inhalation	rat
OECD 410, key study	ca. 1 000 mg/kg bw/day, NOAEL	dermal	rabbit

**Carcinogenicity**

Test type	Results	Exposure	Tested organisms
OECD 453, key study	100 mg/kg bw/day, dose level: 75 microlitres per week (100 mg/kg/day)	dermal	mouse

**Germ cell mutagenicity**

Test type	Results	Exposure	Tested organisms
OECD 474, key study	negative	oral gavage or intraperitoneal injection	mouse

**Reproductive toxicity**



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Test type	Results	Exposure	Tested organisms
OECD 421, key study	>= 1 000 mg/kg bw/day, NOAEL >= 1 000 mg/kg bw/day, NOAEL	oral: gavage	rat

### Mixture:

Acute toxicity:	The product does not meet the criteria for classification.
Serious eye damage / irritation:	The product does not meet the criteria for classification.
Skin corrosion / irritation:	The product does not meet the criteria for classification.
Respiratory or skin sensitisation:	The product does not meet the criteria for classification.
STOT - single exposure:	The product does not meet the criteria for classification.
STOT - repeated exposure:	The product does not meet the criteria for classification.
Carcinogenicity:	The product does not meet the criteria for classification.
Germ cell mutagenicity:	The product does not meet the criteria for classification.
Reproductive toxicity:	The product does not meet the criteria for classification.
Aspiration hazard:	The product does not meet the criteria for classification.

### 11.2 Information on other hazards

#### Endocrine disrupting properties

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

#### Other information

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

The product does not meet the criteria for classification.

#### Aluminum, benzoate C16-18-fatty acids complexes (CAS: 94166-87-7)

Toxicity	Tested organisms	Results	Test type
Acute toxicity to fish	<i>Oncorhynchus mykiss</i>	> 100 mg/L, LL50 / 96 h 100 mg/L, NOELR / 96 h	OECD 203
Acute toxicity to invertebrates	<i>Daphnia magna</i>	> 100 mg/L, EL50 / 48 h 100 mg/L, NOELR / 48 h	OECD 202
Acute toxicity to aquatic algae	<i>Pseudokirchneriella subcapitata</i>	> 100 mg/L, EL50 / 72 h 100 mg/L, NOELR / 72 h	OECD 201
Biotic degradation		Readily biodegradable (100%)	

#### Distillates (petroleum), hydrotreated heavy naphthenic (CAS: 64742-52-5)

Toxicity	Tested organisms	Results	Test type
Acute toxicity to fish	<i>Pimephales promelas</i>	> 100 mg/L, LL50 / 96 h >= 100 mg/L, NOEL: / 96 h	OECD 203
Acute toxicity to invertebrates	<i>Daphnia magna</i>	> 10 000 mg/L, EL50 / 24 h > 10 000 mg/L, EL50 / 48 h >= 10 000 mg/L, NOEL: / 48 h	OECD 202
Acute toxicity to aquatic algae	<i>Raphidocelis subcapitata</i>	>= 100 mg/L, NOEL: / 72 h >= 100 mg/L, NOEL: / 72 h	OECD 201

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Distillates (petroleum), hydrotreated heavy paraffinic (CAS: 64742-54-7)

Toxicity	Tested organisms	Results	Test type
Acute toxicity to fish	<i>Pimephales promelas</i>	> 100 mg/L, LL50 / 96 h >= 100 mg/L, NOEL: / 96 h	OECD 203
Acute toxicity to invertebrates	<i>Gammarus pulex</i>	> 10 000 mg/L, LL50 / 24 h > 10 000 mg/L, LL50 / 48 h > 10 000 mg/L, LL50 / 72 h > 10 000 mg/L, LL50 / 96 h >= 10 000 mg/L, NOEL: / 96 h	OECD 202
Acute toxicity to aquatic algae	<i>Raphidocelis subcapitata</i>	>= 100 mg/L, NOEL: / 72 h >= 100 mg/L, NOEL: / 72 h	OECD 201

**12.2 Persistence and degradability**

There is no data available for the product.

Biotic degradation: The biodegradability of the component is given in sec. 12.1

**12.3 Bioaccumulative potential**

There is no data available for the product.

log Kow / log Pow: Data are not available for substances.

Bioaccumulation: Data are not available for substances.

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

This product does not contain any substances which are classified as PBT or vPvB in a concentration of 0.1% by weight or higher.

**12.6 Endocrine disrupting properties**

This product does not contain endocrine disruptors in a concentration of 0.1% by weight or higher.

**12.7 Other adverse effects**

No data available.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****13.1.1 Catalogue No. of substance/mixture waste:**

07 06 99 Wastes not otherwise specified

**13.1.2 Catalog No. of packaging waste:**

15 01 10 Packaging containing residues of or contaminated by dangerous substances

**13.1.3 Recommended procedure for substance/mixture waste disposal:**

No data available.

**13.1.4 Recommended procedure for packaging disposal:**

Empty containers must be disposed of in accordance with the applicable waste legislation. After perfect cleaning, the packaging can be used as a secondary raw material for the same purpose. Recommended way of disposing of recycling, burning in a hazardous waste incinerator or storing hazardous waste.

**13.1.5 Physical / chemical properties that may affect waste treatment method:**

No data available.

**13.1.6 Sewage disposal-relevant information:**

Protect against weathering. Prevent leakage of waste into the water / soil / sewage system. In case of leakage, inform the competent authorities.

**13.1.7 Other disposal recommendations:**

Dispose of in accordance with applicable legislation.

**SECTION 14: Transport information**

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	Type of transport	Land transport ADR / RID	Sea transport IMDG	Air Transport ICAO / IATA
14.1	UN number or ID number	There is no dangerous good in terms of transport.	There is no dangerous good in terms of transport.	There is no dangerous good in terms of transport.
14.2	UN proper shipping name			
14.3	Transport hazard class(es)			
	Hazard identification number	-	-	-
	Labels			
14.4	Packing group			

**14.5 Environmental hazards**

No data available.

**14.6 Special precautions for user**

No data available.

**14.7 Maritime transport in bulk according to IMO instruments**

Not specified.

### SECTION 15: Regulatory information

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

all as amended and including implementing regulations

Regulation (EC) No. 1272/2008 (CLP) on classification, labelling and packaging of substances and mixtures,...

Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH),...

Applicable national regulations.

The product contains substance Distillates (petroleum), hydrotreated heavy naphthenic, Distillates (petroleum), hydrotreated heavy paraffinic, that is included in Annex XVII. of REACH Regulation.

**15.2 Chemical safety assessment**

Chemical safety assessment hasn't been made.

### SECTION 16: Other information

**Complete text of all classifications and hazard classes referred to in SECTION 3:**

**Hazard class:** Carc. 1B - Carcinogen, category 1B

**H-statements:** H350 May cause cancer <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

**Abbreviations**

ADR	Accord Dangereuses Route
CAS	Chemical Abstracts Service
DNEL	Derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effect level for 50%
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
LD50	Lethal dose for 50%
LL50	Lethal load for 50%
NOAEC	No observable adverse effect concentration
NOAEL	No observable adverse effect level

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NOEC	No observable effect concentration
NOEL	No observable effect level
MPC	Maximum permissible concentration
OEL	Occupational Exposure Limit (workplace exposure limit - 8 hours / shift)
PBT	Persistent, bioaccumulative and toxic
PEL	Permissible exposure limits
PNEC	Predicted no-effect concentration
RID	Regulations for the International Carriage of Dangerous Goods by Rail
STEL	Short Term Exposure Limit (short exposure - corresponds to approx. 15 min.)
VOC	Volatile organic Compounds
vPvB	Very persistent and very bioaccumulative
WGK	Hazard classes for water (Wassergefährdungsklassen)
TRGS	German standard for the storage of hazardous substances (Technische Regeln für Gefahrstoffe)

**Changes to previous version SDS:**

New SDS based on Commission Regulation (EU) 2020/878. The classification has been performed by calculation method.

**Instructions for training**

Workers who come into contact with dangerous substances must be aware of the effects of these substances, how they are treated, and protective measures to the extent necessary. Furthermore, they must be familiar with the first aid principles, with the necessary sanitation procedures and with the procedures for disaster and accident elimination. The person handling this chemical product must be familiar with the safety rules and the data given in the safety data sheet.

**Other information**

The above information describes the conditions for safe handling of the product and corresponds to the current knowledge of the manufacturer and serves as instruction for the training of the persons handling the product.

The manufacturer carries guarantee the above-described properties of the product at the recommended use.

The user is responsible for determining the suitability of the product for specific purposes and adapting security measures if such application is contrary to the manufacturer's recommendations.