



**Grinding Stone Oil (Fluid)**

Print date 12.06.2023  
Revision date 12.06.2023  
Version 2.3 (en)  
replaces version of 18.10.2021 (2.2)

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

**1.1 Product identifier**

**Trade name/designation** Grinding Stone Oil (Fluid)  
**Unique Formula Identifier** UFI: UG70-60V4-K00Q-DAV4

**Hazard components**

Kohlenwasserstoffe, C11-C14, n-Alkane, < 2% Aromaten, Weißes Mineralöl

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

**Sector of uses [SU]**

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
SU3 Industrial uses

**Product Categories [PC]**

PC24 Lubricants, greases, release products

**\* 1.3 Details of the supplier of the safety data sheet**

**Supplier**

joke Technology GmbH  
Asselborner Weg 14-16  
D-51249 Bergisch Gladbach  
Telephone +49 (0) 22 04 / 8 39-0  
Telefax +49 (0) 22 04 / 8 39-60  
E-mail [info@joke.de](mailto:info@joke.de)  
Website <https://www.joke-technology.com/>

Department responsible for information:

Telephone +49 (0) 22 04 / 8 39-0  
Telefax +49 (0) 22 04 / 8 39-60

E-mail (competent person):  
[sida@joke.de](mailto:sida@joke.de)

**1.4 Emergency telephone number**

Vergiftungs-I-Z. Freiburg +49 (0) 761 / 1 92 40  
REACH and CLP UK CA Help Desk +44 171 635 9191

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**\* SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
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Asp. Tox. 1, H304

**Hazard statements for health hazards**

H304 May be fatal if swallowed and enters airways.

**2.2 Label elements**

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

**Hazard components**

Kohlenwasserstoffe, C11-C14, n-Alkane, < 2% Aromaten, Weißes Mineralöl

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**Hazard pictograms**



GHS08

**Signal word**

Danger

**Hazard statements**

H304 May be fatal if swallowed and enters airways.

**Precautionary statements**

P331 Do NOT induce vomiting.  
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

**Supplemental hazard information**

EUH066 Repeated exposure may cause skin dryness or cracking.

\* **2.3 Other hazards**

**Adverse physicochemical effects**

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.  
 This material is combustible and can be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment).  
 This material can accumulate static charge by flow or agitation and can be ignited by static discharge.

\* **Adverse human health effects and symptoms**

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).  
 IF INSPECTED: Danger of aspiration!  
 May irritate nasal mucosa and respiratory tract.  
 Irritating to eyes.

\* **Adverse environmental effects**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.

**Other adverse effects**

Special danger of slipping by leaking/spilling product.

**Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**SECTION 3: Composition / information on ingredients**

**3.1 Substances**

not applicable

**3.2 Mixtures**

**Hazardous ingredients**

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
331466-38-7	924-803-9	Kohlenwasserstoffe, C11-C14, n-Alkane, < 2% Aromaten	> 95 weight-%	Asp. Tox. 1; H304; EUH066	ATE(oral): > 5000 mg/kg ATE(dermal): > 5000 mg/kg

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CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
8042-47-5	232-455-8	Weißes Mineralöl	< 5 weight-%	Asp. Tox. 1; H304	ATE(oral): > 5000 mg/kg ATE(dermal): > 2000 mg/kg ATE(inhalation dust/mist): > 5 mg/L
REACH No.	Substance name				
01-2119485647-22	Kohlenwasserstoffe, C11-C14, n-Alkane, < 2% Aromaten				
01-2119487078-27	Weißes Mineralöl				

\* **SECTION 4: First aid measures**\* **4.1 Description of first aid measures**\* **General information**

Remove affected person from the danger area and lay down.  
 Do not leave affected person unattended.  
 Put victim at rest, cover with a blanket and keep warm.  
 If threatening unconsciousness, position and transport in recovery position  
 Never give anything by mouth to an unconscious person or a person with cramps.

\* **Following inhalation**

Remove casualty to fresh air and keep warm and at rest.  
 If breathing is irregular or stopped, administer artificial respiration.  
 In case of unconsciousness and breathing, place the patient in the recovery position and seek medical advice.

\* **Following skin contact**

After contact with skin, wash immediately with plenty of water and soap.  
 Remove contaminated, saturated clothing immediately.  
 Rub greasy ointment into the skin.  
 In case of skin irritation, consult a physician.

\* **After eye contact**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.  
 Remove contact lenses, if possible

\* **Following ingestion**

Rinse mouth thoroughly with water.  
 Give nothing to eat or drink.  
 Do NOT induce vomiting.  
 If swallowed seek medical advice immediately and show the doctor packing or label.

\* **Self-protection of the first aider**

First aider: Pay attention to self-protection!



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

\* **Symptoms**

The following symptoms may occur:

Nausea  
Fever  
Headache  
Cough  
Irritating  
Erythema (redness)  
Dizziness  
Dyspnoea  
Unconsciousness  
Cyanosis (blue coloured blood)  
Pneumonia  
Symptoms can occur only after several hours.

\* **Effects**

May be fatal if swallowed and enters airways  
Repeated contact may cause brittle or cracked skin.

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

\* **Notes for the doctor**

Treat symptomatically.  
Regulation of the blood circulation, possible shock treatment.  
Subsequent observance for pneumonia and lung oedema.  
Medical surveillance at least 48 hours.

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\* **SECTION 5: Firefighting measures**

\* **5.1 Extinguishing media**

\* **Suitable extinguishing media**

Water mist  
Foam  
Extinguishing powder  
Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media**

Full water jet

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

\* **Hazardous combustion products**

Flammable liquid. Vapours may form explosive mixtures with air. The vapours of the product are heavier than air and may spread on the ground; re-ignition possible at distant ignition sources. Strong soot formation during combustion  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

**5.3 Advice for firefighters**

**Special protective equipment for firefighters**

In case of fire: Wear self-contained breathing apparatus.  
Wear full chemical protective clothing.

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\* **Additional information**

Fire class  
B (Fires of liquids or liquid turning substances).  
Co-ordinate fire-fighting measures to the fire surroundings.  
Use water spray jet to protect personnel and to cool endangered containers.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.  
Do not inhale explosion and combustion gases.  
Move undamaged containers from immediate hazard area if it can be done safely.  
Floats up and can re-ignite on the water surface.

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\* **SECTION 6: Accidental release measures**

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

\* **For non-emergency personnel**

Provide adequate ventilation.  
Use personal protection equipment.  
Remove persons to safety.  
Remove all sources of ignition.  
Avoid contact with skin and eyes.  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.  
Special danger of slipping by leaking/spilling product.  
Emergency procedures  
Eliminate leaks immediately.

\* **For emergency responders**

Wear antistatic shoes and work clothes (EN 1149-5)  
Use appropriate respiratory protection.  
Personal protection equipment

\* **6.2 Environmental precautions**

Do not allow to enter into surface water or drains.  
Make sure spills can be contained, e.g. in sump pallets or kerbed areas.  
Suppress gases/vapours/mists with water spray jet.  
Prevent spread over a wide area (e.g. by containment or oil barriers).  
Cover drains.  
Ensure all waste water is collected and treated via a waste water treatment plant.  
In case of pollution of waters or sewers, inform the competent authorities.

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

\* **For containment**

Suitable material for taking up:  
Sand  
Kieselguhr  
Chemical binding agents, containing acids  
Universal binder  
Send in suitable containers for recovery or disposal.

**For cleaning up**

Remove from the water surface (e.g. skimming, sucking).

**6.4 Reference to other sections**

Personal protection equipment: see section 8

\* **Additional information**

Use suitable container to avoid contamination of the environment

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\* **SECTION 7: Handling and storage**

\* **7.1 Precautions for safe handling**

\* **Protective measures**

Wear personal protection equipment (refer to section 8).  
Vapours are heavier than air, spread along floors and form explosive mixtures with air.  
Reignition possible over considerable distance.  
Measures to prevent fire  
Keep away from sources of ignition - No smoking.  
Use only antistatically equipped (spark-free) tools.  
Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.  
Take precautionary measures against static discharges.  
During filling, metering and sampling should be used if possible:  
Splashproof grounded devices  
Devices with local exhaust  
closed devices with gas displacement  
Environmental precautions  
Shafts and sewers must be protected from entry of the product.  
All work processes must always be designed so that the following is excluded:  
Inhalation of vapours or spray/mists  
Avoid:  
Skin contact  
Eye contact  
Only allow access to authorised staff.

\* **Advices on general occupational hygiene**

When using do not eat, drink, smoke, sniff.  
Wash hands and face before breaks and after work and take a shower if necessary.  
Immediately remove any contaminated clothing, shoes or stockings.  
Wash contaminated clothing prior to re-use.

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

\* **Technical measures and storage conditions**

The work areas should be designed so that their cleaning is possible at any time  
Vapors/aerosols must be  
must be safely extracted directly at the point of origin.

\* **Packaging materials:**

Container: tank truck, IBC, barrel, can.  
Suitable material: stainless steel, carbon steel, polyethylene, polypropylene, Teflon  
Unsuitable material: NR (natural rubber, natural latex), butyl rubber, EPDM, polystyrene.

**Requirements for storage rooms and vessels**

Keep/Store only in original container.  
Ensure adequate ventilation of the storage area.  
Keep container tightly closed.

**Storage class**

10 Combustible liquids that cannot be assigned to any of the above storage classes

\* **Materials to avoid**

Do not store together with:  
Food and feedingstuffs  
Oxidising agent



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- \* **Further information on storage conditions**  
 Keep locked up.  
 Protect from direct solar radiation.  
 Protect from extreme heat and cold.  
 Recommended storage temperature: room temperature.  
 Storage time: 12 months.

**7.3 Specific end use(s)**

No data available

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

\* **8.1 Control parameters**

\* **DNEL worker**

CAS No.	Substance name	DNEL value	DNEL type	Remark
8042-47-5	Weißes Mineralöl	164.56 mg/m <sup>3</sup>	long-term inhalative (systemic)	
8042-47-5	Weißes Mineralöl	217.05 mg/kg bw/day	long-term dermal (systemic)	

\* **DNEL Consumer**

CAS No.	Substance name	DNEL value	DNEL type	Remark
8042-47-5	Weißes Mineralöl	34.78 mg/m <sup>3</sup>	long-term inhalative (systemic)	
8042-47-5	Weißes Mineralöl	93.02 mg/kg bw/day	long-term dermal (systemic)	
8042-47-5	Weißes Mineralöl	25 mg/kg bw/day	Long-term – oral, systemic effects	

\* **8.2 Exposure controls**

\* **Appropriate engineering controls**

\* **Remark**

Technical measures and the application of suitable work processes have priority over personal protection equipment.  
 Closed devices

**Technical measures to prevent exposure**

ventilation system

\* **Personal protection equipment**

\* **Eye/face protection**

tightly fitting goggles  
 EN 166



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- \* **Hand protection**  
Tested protective gloves must be worn  
EN ISO 374  
Information on glove material: NBR (nitrile rubber), Thickness:> 0,4 mm, Breakthrough time (maximum wearing time):> 480 min.  
FKM (fluoro rubber)  
Breakthrough time: >480 min  
Thickness of the glove material 0,7mm  
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.  
Check leak tightness/impermeability prior to use.  
In the case of wanting to use the gloves again, clean them before taking off and air them well.  
Breakthrough times and swelling properties of the material must be taken into consideration.  
Take recovery periods for skin regeneration.
  
- \* **Body protection:**  
Flame-retardant protective clothing  
Required properties:  
antistatic  
EN 1149
  
- \* **Respiratory protection**  
Respiratory protection necessary at:  
aerosol or mist formation  
insufficient ventilation  
Suitable respiratory protection apparatus:  
Ventilator filtering device (EN 147)  
A  
Self-contained respirator (breathing apparatus)
  
- Thermal hazards**  
The product is flammable and can form flammable gas / air mixtures when heated or sprayed.
  
- \* **Environmental exposure controls**  
**Technical measures to prevent exposure**  
Take appropriate protective measures to limit or prevent emissions.
  
- \* **Remark**  
Avoid release into the environment.

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\* **SECTION 9: Physical and chemical properties**

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

**Physical state**

liquid

**Colour**

colourless

**Odour**

mild

**Safety relevant basis data**

	Value	Method	Source, Remark
Odour threshold:	not determined		



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	Value	Method	Source, Remark
Melting point/freezing point	Pour point < 0 °C	ASTM D97	
Boiling point or initial boiling point and boiling range	230- 285 °C	DIN EN ISO 3405	
flammability	not determined		
Lower and upper explosion limit	Upper explosion limit 7 Vol-%		
Lower and upper explosion limit	Lower explosion limit 0.5 Vol-%		
Flash point	101 °C	DIN EN ISO 2719	
Auto-ignition temperature	> 200 °C		
Decomposition temperature	not determined		
pH	not determined		
Viscosity	kinematic 2 mm <sup>2</sup> /s (40°C)	ASTM D7042-14	
Viscosity	kinematic 2.9 mm <sup>2</sup> /s (20°C)	ASTM D7042-14	
Solubility(ies)	Water solubility (20°C)		poorly soluble
Solubility(ies)	Solvent (20°C)		miscible
Partition coefficient n-octanol/water (log value)			No data available
Vapour pressure	< 0.1 hPa (20°C)	calculated	
Density and/or relative density	767 kg/m <sup>3</sup> (15°C)	DIN EN ISO 12185	
Relative vapour density	> 1 pressure 1013 hPa		
particle characteristics	not determined		

**\* 9.2 Other information****\* Information with regard to physical hazard classes****\* flammable liquids****Safety characteristics**

	Value	Method, Result	Source, Remark
			Non-flammable. Vapors from the product are heavier than air and may spread along the ground; re-ignition possible at distant ignition sources.

**\* Other safety characteristics**

	Value	Method	Source, Remark
Conductivity			Non-conductive.
Explosive properties			The product is not explosive, but the formation of explosive vapor / air mixtures is possible.

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	Value	Method	Source, Remark
	Oxidising properties		Not oxidising.
*	<b>Other information</b>		
	Temperature class T 3 according to ATEX directive , ignition temperature > 200 °C		

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

No hazardous reactions known.

\* **10.2 Chemical stability**

The product is stable under normal conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

\* **10.4 Conditions to avoid**

High temperatures, ignition sources, incompatible materials  
 Do not cut, drill, grind, weld or similar on or near containers.

**10.5 Incompatible materials**

Oxidising agent, strong

**10.6 Hazardous decomposition products**

No hazardous decomposition products known.

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

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	ATEmix calculated: > 5000 mg/kg		
	CAS No.331466-38-7 Hydrocarboner, C11-C14, n-alkaner, <2% aromater LD50: > 5000 mg/kg Species Rat	OECD 401	
	CAS No.8042-47-5 Weißes Mineralöl LD50: > 5000 mg/kg Species Rat	OECD 401	
Acute dermal toxicity	ATEmix calculated: >2000≤ 5000 mg/kg	OECD 402	



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	Effective dose	Method, Evaluation	Source, Remark
Acute inhalation toxicity	CAS No.331466-38-7 Hydrocarboner, C11- C14, n-alkaner, <2% aromater LD50: > 5000 mg/kg Species Rabbit	OECD 402	
	CAS No.8042-47-5 WeiÙes Mineralöl LD50: > 2000 mg/kg Species Rabbit	OECD 402	
	Acute inhalation toxicity (dust/mist) ATEmix calculated: > 5 mg/L		
	CAS No.8042-47-5 WeiÙes Mineralöl Acute inhalation toxicity (dust/mist) LC50: > 5 mg/L Species Rat Exposure time 4 h	OECD 403	

\* **Assessment/classification**  
 Based on available data, the classification criteria are not met.

\* **Skin corrosion/irritation**

\* **Assessment/classification**  
 Based on available data, the classification criteria are not met.  
 slightly irritant  
 Repeated exposure may cause skin dryness or cracking.

\* **Serious eye damage/irritation**

\* **Assessment/classification**  
 slightly irritant  
 Based on available data, the classification criteria are not met.

\* **Sensitisation to the respiratory tract**

\* **Assessment/classification**

not sensitizing

Based on available data, the classification criteria are not met.

\* **Skin sensitisation**

**Animal data**

Result / Evaluation	Dose / Concentration	Method	Source, Remark
not sensitising.			

\* **Assessment/classification**  
 Based on available data, the classification criteria are not met.  
 No classification (OECD 406)



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\* **Germ cell mutagenicity**

\* **Assessment/classification**

Based on available data, the classification criteria are not met.

\* **Carcinogenicity**

\* **Assessment/classification**

Based on available data, the classification criteria are not met.

\* **Reproductive toxicity**

\* **Assessment/classification**

Based on available data, the classification criteria are not met.

\* **STOT-single exposure**

\* **STOT SE 1 and 2**

**Other information**

none

\* **Assessment/classification**

Based on available data, the classification criteria are not met.

\* **STOT SE 3**

\* **Irritation to respiratory tract**

\* **Assessment/classification**

Based on available data, the classification criteria are not met.

\* **STOT-repeated exposure**

\* **Assessment/classification**

Based on available data, the classification criteria are not met.

\* **Aspiration hazard**

\* **Experimental data**

	Value	Method	Source, Remark
Cinematic viscosity (40°C):	< 20.5 mm <sup>2</sup> /s		

\* **Remark**

May be fatal if swallowed and enters airways.

**11.2 Information on other hazards**

**Symptoms related to the physical, chemical and toxicological characteristics**

	Effective dose	Method, Evaluation	Source, Remark
Endocrine disrupting properties			This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

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\* **Other information**

Inhaling high vapor concentrations may cause anesthetic effects and irritate the respiratory tract.  
 Frequent and prolonged skin contact may cause skin irritation.  
 Has a degreasing effect on the skin.  
 If swallowed or vomited, a small amount of fluid in the lungs may cause chemical pneumonitis or pulmonary edema.

\* **SECTION 12: Ecological information**\* **12.1 Toxicity**\* **Aquatic toxicity**

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	CAS No.331466-38-7 Hydrocarboner, C11- C14, n-alkaner, <2% aromater LC50: >10≤ 30 mg/L Species Oncorhynchus mykiss (Rainbow trout) Test duration 4 d	OECD 203	
	CAS No.8042-47-5 Weiβes Mineralöl LC50: > 100 mg/L Species Oncorhynchus mykiss (Rainbow trout) Test duration 4 d	OECD 203	
Chronic (long-term) fish toxicity	CAS No.331466-38-7 Hydrocarboner, C11- C14, n-alkaner, <2% aromater NOEC 6.48 mg/L Species Oncorhynchus mykiss (Rainbow trout) Test duration 28 d		
	CAS No.8042-47-5 Weiβes Mineralöl NOEC ≥ 1000 mg/L Species Oncorhynchus mykiss (Rainbow trout) Test duration 28 d		
Acute (short-term) toxicity to crustacea	CAS No.331466-38-7 Hydrocarboner, C11- C14, n-alkaner, <2% aromater EC50 ≥ 1000 mg/L Species Daphnia magna (Big water flea) Test duration 2 d		
	CAS No.8042-47-5 Weiβes Mineralöl LC50 > 100 mg/L Species Daphnia magna (Big water flea) Test duration 2 d	OECD 202	

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	Effective dose	Method, Evaluation	Source, Remark
Chronic (long-term) toxicity to aquatic invertebrate	CAS No.331466-38-7 Hydrocarboner, C11-C14, n-alkaner, <2% aromater NOEC > 1000 mg/L Species Daphnia magna (Big water flea) Test duration 21 d		
	CAS No.8042-47-5 Weißes Mineralöl NOEC ≥ 1000 mg/L Species Daphnia magna (Big water flea) Test duration 21 d	OECD 211	
Acute (short-term) toxicity to algae and cyanobacteria	CAS No.331466-38-7 Hydrocarboner, C11-C14, n-alkaner, <2% aromater EC50 > 1000 mg/L Species Pseudokirchnerella subcapitata Test duration 3 d	OECD 201	
	CAS No.8042-47-5 Weißes Mineralöl NOEC ≥ 100 mg/L Species Pseudokirchnerella subcapitata Test duration 3 d	OECD 201	
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

\* **Assessment/classification**

May cause long-term adverse effects in the environment.

\* **12.2 Persistence and degradability**

	Value	Method	Source, Remark
Biodegradation	Degradation rate ≥ 77 % Test duration 28 d	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	CAS No.331466-38-7 Hydrocarboner, C11-C14, n-alkaner, <2% aromater  Readily biodegradable (according to OECD criteria).
Biodegradation	Degradation rate 31.13 % Test duration 28 d	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	CAS No.8042-47-5 Weißes Mineralöl  Evidence for inherent biodegradability.



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**12.3 Bioaccumulative potential**

**Assessment/classification**

not determined

\* **12.4 Mobility in soil**

\* **Assessment/classification**

Leaking substances can penetrate the soil and lead to contamination of the soil and groundwater.

**12.5 Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

\* **12.6 Endocrine disrupting properties**

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties			This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7 Other adverse effects**

\* **Additional ecotoxicological information**

\* **Additional information**

Leaking product can lead to the formation of a film on the surface of the water, which can reduce oxygen exchange and cause organisms to die.

If product enters soil, it will be mobile and may contaminate groundwater.  
Do not allow product to enter the environment and sewage system in an uncontrolled manner.

\* **SECTION 13: Disposal considerations**

\* **13.1 Waste treatment methods**

\* **Appropriate disposal / Product**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.  
Dispose of waste according to applicable legislation.

**Appropriate disposal / Package**

Handle contaminated packages in the same way as the substance itself.  
Dispose of according to official regulations.

\* **Other disposal recommendations**

Collection receptacles must be clearly labeled with the systematic designation of their contents and marked with the corresponding pictograms, H and P phrases. Keep containers tightly closed in a well ventilated place. Dispose of in accordance with regulations.



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\* **Remark**  
 The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.  
 do not pressurise, cut, weld, braze, solder, drill, GRIND OR EXPOSE TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY OR OTHER SOURCES OF IGNITION. EXPOSE. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.  
 Recycling possible after special treatment.  
 Consult the appropriate local waste disposal expert about waste disposal.

**SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1 UN number or ID number</b>	-	-	-
<b>14.2 UN proper shipping name</b>	-	-	-
<b>14.3 Transport hazard class(es)</b>	-	-	-
<b>14.4 Packing group</b>	-	-	-
<b>14.5 Environmental hazards</b>	No	No	No

**14.6 Special precautions for user**  
 This information is not available.

**14.7 Maritime transport in bulk according to IMO instruments**  
 This information is not available.

**Land transport (ADR/RID)**

**Remark**  
 Not classified for this transport carrier.

**Sea transport (IMDG)**

**Remark**  
 No hazardous material as defined by the prescriptions.

**Air transport (ICAO-TI / IATA-DGR)**

**Remark**  
 Not classified for this transport carrier.

\* **SECTION 15: Regulatory information**

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

**EU legislation**

**Restrictions on use**  
 REACH Anhang XVII Nr.: 3

**Other regulations (EU)**

**To follow:**  
 Directive 2004/37 / EC: On the protection of workers from the risks related to exposure to carcinogens or mutagens at the workplace, as amended.





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**15.2 Chemical Safety Assessment**

\* **National regulations**

For this substance a chemical safety assessment has been carried out.

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\* **SECTION 16: Other information**

\* **Indication of changes**

\* Data changed compared with the previous version

\* **Abbreviations and acronyms**

REACH: Registration, Evaluation and Authorization of Chemicals  
SU: use category  
PC: Products category  
CLP: Classification, Labelling and Packaging  
Asp. Tox. 1: Aspiration toxicity, Category 1  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
PBT: persistent and bioaccumulative and toxic  
vPvB: very persistent, very bioaccumulative  
CAS: Chemical Abstracts Service  
SCL: Specific concentration limit  
ATE: Acute Toxicity Estimate  
CO<sub>2</sub>: Carbon dioxide  
EN: European Standard  
TRGS: Technical Rules for Hazardous Substances  
DNEL: derived no-effect level  
DIN: German Institute for Standardization / German Industrial Standard  
ISO: International Organization for Standardization  
ASTM: American Society for Testing and Materials  
OECD: Organisation for Economic Cooperation and Development  
ATEmix: Acute Toxicity Estimate for Mixtures  
LD<sub>50</sub>: Lethal (fatal) Dose 50%  
LC<sub>50</sub>: Lethal (fatal) Concentration 50%  
STOT: Specific Target Organ Toxicity  
NOEC: No Observed Effect Concentration  
EC<sub>50</sub>: Effective Concentration 50%  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
RID: Dangerous goods regulations for transport by rail  
IMDG: International Maritime Dangerous Goods  
ICAO: International Civil Aviation Organization  
IATA: International Air Transport Association  
WGK: water hazard class  
JArbSchG: Youth Labor Protection Act (DE)  
MuSchRiV: Maternity Protection Guideline Ordinance (DE)

\* **Key literature references and sources for data**

Datasheets of the manufacturer  
European Chemicals Agency, <http://echa.europa.eu/>.

\* **Additional information**

This safety data sheet complies with the requirements of Commission Regulation (EU) 2020/878 amending Regulation (EC) No 1907/2006.  
National and local regulations concerning chemicals shall be observed.  
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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**Relevant H- and EUH-phrases (Number and full text)**

H304 May be fatal if swallowed and enters airways.

\* **Indication of changes**

\* Data changed compared with the previous version