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**4.1. Description of first aid measures**

**General information**

Self-protection of the first aider

Change contaminated clothing.

Do not put any product-impregnated cleaning rags into your trouser pockets.

**After inhalation**

Provide fresh air. In case of inhalation of aerosols/spray mist/splash spots: Consult physician.

Avoid breathing dust/fume/gas/mist/vapours/spray. IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

**After contact with skin**

Wash with plenty of water. Change contaminated clothing. After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.

If skin irritation or rash occurs: Get medical advice/attention.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.

In case of troubles or persistent symptoms, consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink plenty of water.

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

Caution if victim vomits: Risk of aspiration!

Aspiration hazard: Call a physician immediately.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

Carbon dioxide (CO<sub>2</sub>). Dry extinguishing powder. Foam.

**Unsuitable extinguishing media**

High power water jet.

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

The product itself does not burn. Special exposure hazards arising from the substance itself, combustion products, resulting gases:

Carbon dioxide (CO<sub>2</sub>). Carbon monoxide. Sulphur oxides. Phosphorus oxides. Hydrogen sulphide (H<sub>2</sub>S).

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. carbon black

In case of fire and/or explosion do not breathe fumes.

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Dispose of waste according to applicable legislation.

Use water spray jet to protect personnel and to cool endangered containers.

**SECTION 6: Accidental release measures**

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

Special danger of slipping by leaking/spilling product.

Wear suitable protective clothing.

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Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.  
Prevent spread over a wide area (e.g. by containment or oil barriers).

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Protect skin by using skin protective cream. Wash hands before breaks and after work.  
Conditions to avoid: aerosol or mist generation.

**Advice on protection against fire and explosion**

No special measures are necessary.  
When using do not smoke.  
Fire class: B (DIN-/EN-Norms: EN2)

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

**Requirements for storage rooms and vessels**

Keep container tightly closed.  
Keep away from heat. Keep/Store only in original container.

**Advice on storage compatibility**

Do not store together with: Food and fodder, Oxidizing agents.

**Further information on storage conditions**

If product enters soil, it will be mobile and may contaminate groundwater. Keep away from heat.

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

**8.1. Control parameters**

**8.2. Exposure controls**

**Protective and hygiene measures**

Change contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.  
When using do not eat, drink or smoke.

Protect skin by using skin protective cream.  
Keep away from food, drink and animal feedingstuffs.  
Do not breathe vapour.

**Eye/face protection**

In fine dispersion/spraying/misting: Wear protective gloves/protective clothing.

**Hand protection**

Wear suitable gloves.

**Skin protection**

In fine dispersion/spraying/misting: Wear protective gloves/protective clothing.

**Respiratory protection**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

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**SECTION 9: Physical and chemical properties**

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

Physical state: liquid  
 Colour: red  
 Odour: characteristic

**Test method**

pH-Value: not applicable DIN 51369

**Changes in the physical state**

Pour point: ISO 3016

: ~-40 °C

Flash point: > 190 °C ISO 2592

Ignition temperature: No data available

Vapour pressure: <0,1 hPa calculated.  
 (at 20 °C)

Density (at 15 °C): ~0,86 g/cm<sup>3</sup> DIN 51757

Water solubility: practically insoluble  
 (at 20 °C)

**Solubility in other solvents**

Soluble in hydrocarbons (mineral oil.)

Viscosity / kinematic: ~38 mm<sup>2</sup>/s DIN 51562  
 (at 40 °C)

Solvent separation test: No data available

Solvent content: none Solvents

**9.2. Other information**

Solid content: 0

none

**SECTION 10: Stability and reactivity**

**10.2. Chemical stability**

No thermal decomposition if properly stored / handled /transported.

Onset of decomposition at elevated temperatures (>65°C)

**10.3. Possibility of hazardous reactions**

possible with strong oxidizing agents.

This product is stable under normal conditions. Hazardous reactions are unlikely.

**10.5. Incompatible materials**

Oxidizing agents, strong.

**10.6. Hazardous decomposition products**

none

**Further information**

No thermal decomposition if properly stored / handled /transported.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

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**Toxicocinetics, metabolism and distribution**

No data available.

**Acute toxicity**

No data available.

Irritant effect on the respiratory tract: Do not breathe gas/vapour.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
64742-55-8	Complex combination of hydrocarbons				
	oral	LD50	> 5000 mg/kg	Rat	
	dermal	LD50	> 3000 mg/kg	Rabbit	

**Irritation and corrosivity**

Irritant effect on the skin: none

Frequent and prolonged eye contact may cause eye irritation.

**Sensitising effects**

Due to the very low concentration of sensitizing substances, the finished product can be assumed not to be skin-sensitizing.

**Severe effects after repeated or prolonged exposure**

Frequently or prolonged contact with skin may cause dermal irritation.

**Carcinogenic/mutagenic/toxic effects for reproduction**

The product is not classified.

**Specific effects in experiment on an animal**

No data available.

**Additional information on tests**

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

**Practical experience**

**Observations relevant to classification**

Has de-greasing effect on the skin.

**Other observations**

No special hazards known when the product is properly used and the precautionary measures indicated are observed.

**SECTION 12: Ecological information**

**12.1. Toxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**12.2. Persistence and degradability**

Due to its low solubility in water the product is almost completely mechanically separated in biological sewage plants. Poorly eliminated from water.

Not easily bio-degradable (according to OECD-criteria). Product is partially biodegradable. Significant residues remain.

Post-use oils must not be discharged into the sewer system or into surface waters nor must they be allowed to enter the soil.

**12.3. Bioaccumulative potential**

No data available.

Do not allow uncontrolled discharge of product into the environment.

**12.4. Mobility in soil**

No data available.

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**12.6. Other adverse effects**

Aquatic organisms: No data available.  
Effects in sewage plants No data available.  
No data available.

**Further information**

Do not allow to enter into surface water or drains. The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Advice on disposal**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation. The waste codes stated are recommendations based on the expected use of the substance and may be re-assigned to other waste codes by the user, if applicable.

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

**Waste disposal number of waste from residues/unused products**

130205 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils  
Classified as hazardous waste.

**Waste disposal number of used product**

130205 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils  
Classified as hazardous waste.

**Waste disposal number of contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances  
Classified as hazardous waste.

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself. Dispose of this material and its container to hazardous or special waste collection point.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number:** No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**Other applicable information (land transport)**

No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

**14.1. UN number:** No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

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**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**Other applicable information (inland waterways transport)**

No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

**14.1. UN number:** No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**Other applicable information (marine transport)**

No dangerous good in sense of this transport regulation.

**Air transport (ICAO)**

**14.1. UN number:** No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**Other applicable information (air transport)**

No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

No dangerous good in sense of this transport regulation.

**SECTION 15: Regulatory information**

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

**National regulatory information**

Water contaminating class (D): 2 - water contaminating

**SECTION 16: Other information**

**Relevant R-phrases (Number and full text)**

Irritating to eyes.

Harmful: may cause lung damage if swallowed.

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

May be fatal if swallowed and enters airways.

Causes serious eye irritation.

**Further Information**

The above data are intended to describe our product in terms of any safety requirements to be observed.

They reflect the state of our current knowledge and experience and shall not be construed as warranted characteristics. Any warranty for accuracy and completeness shall be expressly excluded.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*