

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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

1.1. Product identifier

Trade name/designation:

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

Use of the substance/mixture:

Anti-corrosion oil

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Curtis Systems GmbH

Geheimrat-Hummel-Platz Nr. 4

65239 Hochheim

Germany

Telephone: 0614690738-0

Telefax: 061469073845

E-mail: info@curtis-systems.de

E-mail (competent person): weimer@curtis-systems.de

1.4. Emergency telephone number

Technical department: 06146-90738-33 (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	

2.2. Label elements

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

Hazard pictograms:



GHS08

Health hazard

Signal word: Danger

Hazard components for labelling:

Carbon hydrogens, C10-C13, n-alkanes

hazard statements for health hazards

H304 May be fatal if swallowed and enters airways.

Precautionary Statements Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/....

P331 Do NOT induce vomiting.

Precautionary Statements Storage

P405 Store locked up.

2.3. Other hazards

No data available

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SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description:

Preparation of highly refined mineral oil with additives.

Additional information:

Substance with a common (EC) occupational exposure limit value. See section 8.

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64742-48-9 EC No.: 918-481-9 REACH No.: 01-2119457273-39-0001	Carbon hydrogens, C10-C13, n-alkanes The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. Danger H304	55 - < 60 weight-%
CAS No.: 57855-77-3 EC No.: 260-991-2	calcium bis(dinonylnaphthalenesulphonate) Aquatic Chronic 4, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1 Warning H315-H317-H319-H413	1 - < 5 weight-%
CAS No.: 128-37-0 EC No.: 204-881-4 REACH No.: 01-2119565113-46-0000	2,6-di-tert-butyl-p-cresol Aquatic Acute 1, Aquatic Chronic 1 Warning H400-H410	< 0.25 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

Change contaminated, saturated clothing.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Following inhalation:

Following inhalation - Provide fresh air.

In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

In case of skin irritation, consult a physician.

After eye contact:

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion:

Let water be drunken in little sips (dilution effect).

Do NOT induce vomiting.

Call a physician immediately.

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

The following symptoms may occur: Cough, Respiratory complaints, Dyspnoea, Vomiting.

Symptoms can occur only after several hours.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Suitable extinguishing media Sand alcohol resistant foam Extinguishing powder Dry extinguishing powder

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Unsuitable extinguishing media:

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO₂). Nitrogen oxides (NO_x). Sulphur oxides

5.3. Advice for firefighters

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

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. In case of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Keep unprotected people away and stay on the upwind side. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.1.2. For emergency responders

No data available

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

For containment:

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control. Cover drains.

For cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed containers for disposal.

6.4. Reference to other sections

Personal protection equipment: see section 8
Disposal: see section 13
Safe handling: see section 7

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

All work processes must always be designed so that the following is as low as possible: Inhalation Skin contact Eye contact
Always close containers tightly after the removal of product.

Fire prevent measures:

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Take precautionary measures against static discharges.

Measures to prevent aerosol and dust generation:

During filling, metering and sampling should be used if possible:
Closed devices

Environmental precautions:

Shafts and sewers must be protected from entry of the product. Provide for retaining containers, eg. floor pan without outflow.

Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

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7.2. Conditions for safe storage, including any incompatibilities

Packaging materials:

Suitable container/equipment material: Steel Refined steel

Requirements for storage rooms and vessels:

Store in a well-ventilated place. Keep container tightly closed.

Take precautionary measures against static discharges.

Protect containers against damage.

Hints on storage assembly:

Materials to avoid: Oxidising agent

Do not store together with: Food and feedingstuffs

Storage class: 10 – Combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:

Further information on storage conditions Protect against: Heat Humidity Frost

Recommended storage temperature 10-30°C

storage stability min. 1 year.

7.3. Specific end use(s)

Recommendation:

Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
TRGS 900 (DE)	Carbon hydrogens, C10-C13, n-alkanes CAS No.: 64742-48-9	① 300 mg/m ³ ② 600 mg/m ³ ⑤ (C9-C14 Aliphaten)
DFG (DE)	Carbon hydrogens, C10-C13, n-alkanes CAS No.: 64742-48-9	① 50 ppm (300 mg/m ³) ② 100 ppm (600 mg/m ³)
TRGS 900 (DE)	2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0	① 10 mg/m ³ ② 40 mg/m ³ ⑤ (Aerosol und Dampf, einatembare Fraktion)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0	5.8 mg/m ³	① DNEL worker ② inhalative, long-term, systemic
2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0	8.3 mg/kg	① DNEL worker ② dermal, long-term, systemic

Substance name	PNEC Value	① PNEC type
2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0	0.004 mg/l	① PNEC aquatic, freshwater
2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0	0.004 mg/l	① PNEC aquatic, marine water
2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0	100 mg/l	① PNEC sewage treatment plant

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Substance name	PNEC Value	① PNEC type
2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0	1.29 mg/kg	① PNEC sediment, freshwater

8.2. Exposure controls

8.2.1. Appropriate engineering controls

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

8.2.2. Personal protection equipment



Eye/face protection:

Tightly sealed safety glasses.

Skin protection:

Hand protection: Tested protective gloves must be worn - In case of prolonged or frequently repeated skin contact:

Suitable material: Suitable material: NBR (Nitrile rubber) Butyl caoutchouc (butyl rubber)

Thickness of the glove material: 0,7 mm

Breakthrough time (maximum wearing time): > 480 min.

Respiratory protection:

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at: exceeding exposure limit values, insufficient ventilation, aerosol or mist formation

Other protection measures:

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

Set out skin protection guidelines. Before starting work, apply solvent-resistant skincare preparations.

Avoid contact with skin, eyes and clothes.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: dark brown

Odour: characteristic

Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not applicable</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	<i>No data available</i>			pressure: 1013 mbar
Decomposition temperature	<i>not determined</i>			
Flash point	≈ 65 °C		DIN EN ISO 2592	
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	≈ 200 °C			
Upper/lower flammability or explosive limits	0.6 - 6.5 %			
Vapour pressure	<i>No data available</i>	20 °C		
Vapour density	<i>not determined</i>			
Density	0.839 g/cm ³	15 °C	DIN EN ISO 12185	
Bulk density	<i>not determined</i>			

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parameter		at °C	Method	Remark
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>	40 °C	DIN EN ISO 3104	
Kinematic viscosity	≈ 4.5 mm ² /s	40 °C		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Protect against: Heat, Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

10.5. Incompatible materials

Materials to avoid Oxidising agent

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

Combustion products: SECTION 5: Firefighting measures

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

Not an irritant.

Data apply to the main component.

Serious eye damage/irritation:

Not an irritant.

Data apply to the main component.

Respiratory or skin sensitisation:

not sensitising.

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

STOT-single exposure:

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

STOT-repeated exposure:

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

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Aspiration hazard:

May be fatal if swallowed and enters airways.
For viscosity data, see section 9.

Additional information:

The inhalation of dust/mist or aerosols causes irritation of the respiratory tract.

SECTION 12: Ecological information

12.1. Toxicity

Aquatic toxicity:

There are no data available on the mixture itself.
The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

Effects in sewage plants:

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

Assessment/classification:

harmless to aquatic organisms up to the tested concentration

12.2. Persistence and degradability

Biodegradation:

Moderately/partially biodegradable.

12.3. Bioaccumulative potential

Accumulation / Evaluation:

No information available.

12.4. Mobility in soil

No information available.

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. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

12 01 07 *	mineral-based machining oils free of halogens (except emulsions and solutions)
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*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation.

Appropriate disposal / Package:

Dispose of waste according to applicable legislation. Delivery to an approved waste disposal company.
Non-contaminated packages may be recycled.

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SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
No dangerous good in sense of these transport regulations.	UN 9003	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	SUBSTANCES WITH A FLASH-POINT ABOVE 61 °C AND NOT MORE THAN 100 °C, which do not belong to another Class when carried in tank vessel	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
No dangerous good in sense of these transport regulations.	 9	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.4. Packing group			
No dangerous good in sense of these transport regulations.	III	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.5. Environmental hazards			
No dangerous good in sense of these transport regulations.	No	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.6. Special precautions for user			
No data available			

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

No data available

15.1.2. National regulations

 [DE] National regulations

Störfallverordnung

Remark:

-

Technische Anleitung Luft (TA-Luft)

Remark:

weight fraction in % (Ziffer 5.2.5. I) : < 5

Water hazard class (WGK)

WGK:

1 - schwach wassergefährdend

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Source:

Self-classification (mixture; calculation rule).

15.2. Chemical Safety Assessment

No information available.

SECTION 16: Other information

16.1. Indication of changes

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16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

16.6. Training advice

No data available

16.7. Additional information

No data available