

SAFETY DATA SHEET

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

Revision date: 01-Oct-2015

Print date: 09-Nov-2015



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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:

Non water-miscible metalworking fluid

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.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	

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:

Distillates (petroleum), heavy hydrocracked

hazard statements for health hazards	
H304	May be fatal if swallowed and enters airways.
hazard statements for environmental hazards	
H412	Harmful to aquatic life with long lasting effects.
Supplemental Hazard information (EU)	
EUH208	Contains N,N-Bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine. May produce an allergic reaction.
Precautionary statements Prevention	
P273	Avoid release to the environment.

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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.
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2.3. Other hazards

Other adverse effects:

No risks worthy of mention. Please observe the information on the safety data sheet at all times.

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.: 64741-76-0 EC No.: 265-077-7	Distillates (petroleum), heavy hydrocracked Asp. Tox. 1 Danger H304	≥ 75 Wt %
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	< 1 Wt %
CAS No.: 68442-22-8 EC No.: 270-478-5	zinc dialkyl dithiophosphate Eye Irrit. 2, Aquatic Chronic 2 H319-H411	0.5 - 1 Wt %
CAS No.: 80584-90-3 EC No.: 279-503-4	N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine H315-H317-H411	0.1 - 0.5 Wt %

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.

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

No data available

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

Unsuitable extinguishing media:

High power water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

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:

Use personal protection equipment. Remove all sources of ignition.
Avoid contact with skin, eyes and clothes.

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).
Cover drains.

6.3. Methods and material for containment and cleaning up

For containment:

Cover drains.

For cleaning up:

Absorb with liquid-binding material (e.g. 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

6.5. Additional information

No data available

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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.

Only use the material in places where open light, fire and other flammable sources can be kept away.

Fire prevent measures:

Keep away from sources of ignition. - No smoking.

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

Measures to prevent aerosol and dust generation:

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

Use a closed dosage system.

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.

Before starting work, apply solvent-resistant skincare preparations.

7.2. Conditions for safe storage, including any incompatibilities

Packaging materials:

Only use containers specifically approved for the substance/product.

Requirements for storage rooms and vessels:

Keep container tightly closed. Provide for retaining containers, eg. floor pan without outflow.

Provide earthing of containers, equipment, pumps and ventilation facilities.

Floors should be impervious, resistant to liquids and easy to clean.

Hints on storage assembly:

Materials to avoid: Oxidising agent

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 Frost

Recommended storage temperature 15-25 °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)	2,6-di-tert-butyl-p-cresol CAS No.: 128-37-0	① 10 mg/m ³ ② 40 mg/m ³ ⑤ (einatembare Fraktion)

8.1.2. biological limit values

No data available

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8.1.3. DNEL-/PNEC-values

No data available

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

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:

When using do not eat, drink, smoke, sniff.

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

Avoid contact with skin, eyes and clothes.

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

8.2.3. Environmental exposure controls

No data available

8.3. Additional information

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: liquid

Colour: light brown

Odour: Mineral oil

Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not applicable</i>	0 °C		
Melting point/freezing point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	> 250 - 0 °C			pressure: 1013 mbar
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	≈ 140 °C		DIN EN ISO 25 92	
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	> 220 °C			
Upper/lower flammability or explosive limits	0.6 - 6.5 %			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	0.85 g/cm ³	15 °C	DIN EN ISO 12 185	

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parameter		at °C	Method	Remark
Bulk density	<i>not determined</i>			
Water solubility (g/L)	<i>not determined</i>			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	≈ 7 mm ² /s	40 °C	DIN EN ISO 31 04	

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

There are no data available on the mixture itself.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Protect against: Heat

10.5. Incompatible materials

Materials to avoid Oxidising agent

10.6. Hazardous decomposition products

No decomposition under normal conditions.

Combustion products: SECTION 5: Firefighting measures

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

There are no data available on the preparation/mixture itself.

Data apply to the main component.

CAS: 64741-76-0

LD50: > 5000 mg/kg, Rat / OECD 401

Acute dermal toxicity:

There are no data available on the preparation/mixture itself.

Data apply to the main component.

CAS: 64741-76-0

LD50: > 2000 mg/kg, Rabbit / OECD 402

Acute inhalation toxicity:

There are no data available on the preparation/mixture itself.

Data apply to the main component.

CAS: 64741-76-0

LC50: > 5000 mg/m³, 4 h, Rat / OECD 403

Skin corrosion/irritation:

Not an irritant.

Data apply to the main component.

Eye damage/irritation:

Not an irritant.

Data apply to the main component.

Respiratory or skin sensitisation:

not sensitising.

The statement is derived from products of similar structure or composition.

Contains: N,N-Bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine.

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Carcinogenicity:

The components in this formulation do not meet the criteria for classification as CMR category 1 or 2.

STOT-single exposure:

Not known.

STOT-repeated exposure:

Not known.

Aspiration hazard:

Observe risk of aspiration if vomiting occurs.

For viscosity data, see section 9.

Additional information:

Has degreasing effect on the skin.

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).

CAS: 128-37-0

LC50: Brachydanio rerio (zebra-fish) Effective dose > 0,57 mg/l, Exposure duration 96 h

EC50: Daphnia magna (Big water flea) Effective dose > 0,17 mg/l. Exposure duration 48 h

IC50: Desmodemus subspicatus. Effective dose > 0,42 mg/l, Exposure duration 72 h

Effects in sewage plants:

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

Assessment/classification:

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

Biodegradation:

Part of the components is biodegradable.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

It is adsorbed by the ground and has low mobility.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

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.

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Appropriate disposal / Package:

Dispose of waste according to applicable legislation.

Packing which cannot be properly cleaned must be disposed of.

Non-contaminated packages may be recycled.

13.2. Additional information

No data available

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

14.1. UN-No.

not relevant

14.2. UN proper shipping name

not relevant

14.3. Transport hazard class(es)

not relevant

14.4. Packing group

not relevant

14.5. Environmental hazards

not relevant

14.6. Special precautions for user

not relevant

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

not relevant

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

Water hazard class (WGK)

WGK:

1 - schwach wassergefährdend

15.2. Chemical Safety Assessment

No information available.

15.3. Additional information

No data available

SECTION 16: Other information

16.1. Indication of changes

First edition: 01.10.2015

Version 2015.1

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

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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.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	

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.
H411	Toxic to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

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.