

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:

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
Reproductive toxicity (<i>Lact.</i>)	H362: May cause harm to breast-fed children.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 1</i>)	H410: Very toxic to aquatic life with long lasting effects.	

2.2. Label elements

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

Hazard pictograms:



GHS09

Environment

Signal word: Warning

hazard statements for health hazards

H362 May cause harm to breast-fed children.

Hazard statements for environmental hazards

H410 Very toxic to aquatic life with long lasting effects.

Supplemental Hazard information (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements Prevention

P201 Obtain special instructions before use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P263 Avoid contact during pregnancy and while nursing.

P264 Wash Hände thoroughly after handling.

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Precautionary statements Response

P308 + P313	IF exposed or concerned: Get medical advice/attention.
P391	Collect spillage.

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:

Mixture of mineral oils, fatty acid esters and EP-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 [CL P]	Concentration
CAS No.: 85535-85-9 EC No.: 287-477-0 REACH No.: 01-2119519269-33-0001	Chlorierte Paraffine (C14-C17) Lact., Aquatic Acute 1, Aquatic Chronic 1 Warning H362-H410-EUH066	25 - 35 Wt %
CAS No.: 64742-46-7 EC No.: 934-956-3 REACH No.: 01-2119827000-58-0000	Carbon hydrogens, C15-C20 Asp. Tox. 1 Danger H304	1 - 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.

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

No known symptoms to date.

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

No data available

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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:

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) Sulphur oxides Hydrogen chloride (HCl)

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. Fire class B (Fires of liquids or liquid turning substances).

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. Special danger of slipping by leaking/spilling product.

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:

Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

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

6.5. Additional information

No data available

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:

Usual measures for fire prevention.
Keep away from sources of ignition - No smoking.
Fire class: B

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7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Keep container tightly closed. Provide for retaining containers, eg. floor pan without outflow.
Keep/Store only in original container.

Hints on storage assembly:

Materials to avoid: Oxidising agent

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)	Chlorierte Paraffine (C14-C17) CAS No.: 85535-85-9	① 0.3 ppm (6 mg/m ³) ② 2.4 ppm (48 mg/m ³) ⑤ (einatembare Fraktion; kann über die Haut aufgenommen werden)

8.1.2. Biological limit values

No data available

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 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

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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

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: yellow

Odour: characteristic

Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>	0 °C		
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	> 220 °C			
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	> 180 °C		DIN EN ISO 25 92	
Evaporation rate	<i>not determined</i>			
Ignition temperature in °C	<i>not determined</i>			
Upper/lower flammability or explosive limits	0.6 - 6.5 %			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Relative density	0.99 - 1 g/cm ³	15 °C	DIN EN ISO 12 185	
Bulk density	<i>not determined</i>			
Water solubility	<i>not determined</i>			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	≈ 40 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 Frost

10.5. Incompatible materials

Materials to avoid Oxidising agent

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10.6. Hazardous decomposition products

No decomposition under normal conditions.

Combustion products:

Carbon dioxide. Carbon monoxide Hydrochloric gas

SECTION 11: Toxicological information

11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
85535-85-9	Chlorierte Paraffine (C14-C17)	LD₅₀ oral: >4,000 mg/kg (Ratte) OECD LD₅₀ dermal: >4,000 mg/kg (Ratte) OECD LC₅₀ inhalative: >48.17 mg/l 1 h (Rat)

Acute oral toxicity:

There are no data available on the mixture itself.

Data apply to the main component.

Acute dermal toxicity:

There are no data available on the mixture itself.

Data apply to the main component.

Acute inhalation toxicity:

There are no data available on the mixture itself.

Data apply to the main component.

Skin corrosion/irritation:

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

Not an irritant.

The statement is derived from the properties of the single components.

Serious eye damage/irritation:

There are no data available on the mixture itself.

slightly irritant

The statement is derived from the properties of the single components.

Respiratory or skin sensitisation:

not sensitising.

Germ cell mutagenicity:

This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Carcinogenicity:

This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Reproductive toxicity:

This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Effects on or via lactation:

chlorinated paraffins C14 - C17 : May cause harm to breastfed babies.

STOT-single exposure:

Not known.

STOT-repeated exposure:

Not known.

SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
85535-85-9	Chlorierte Paraffine (C14-C17)	LC₅₀: ≥5,000 mg/l 4 d (Alburnus alburnus (alburnum)) IUCLID EC₅₀: 0.006 mg/l 2 d (Daphnia magna (Big water flea)) EC₅₀: ≥3.2 mg/l 4 d (Selenastrum capricornutum)

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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).

Result / evaluation: Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Biodegradation:

Part of the components is biodegradable.

12.3. Bioaccumulative potential

Accumulation / Evaluation:

No information available.

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

CAS No.	Substance name	Results of PBT and vPvB assessment
85535-85-9	Chlorierte Paraffine (C14-C17)	—
64742-46-7	Carbon hydrogens, C15-C20	—

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

12.6. Other adverse effects

The product contains organically bound halogen as per formulation. It may increase the AOX value when discharged from treatment plants or into natural waters.

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 06 *	mineral-based machining oils containing 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.

Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Dispose of waste according to applicable legislation.

Non-contaminated packages may be recycled.

13.2. Additional information

No data available

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.			
UN 3082	UN 3082	UN 3082	UN 3082

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.2. UN proper shipping name			
Environmentally Hazardous substance, Liquid, N.O.S. (chlorinated Paraffins C14-C17)	Environmentally Hazardous substance, Liquid, N.O.S. (chlorinated Paraffins C14-C17)	Environmentally Hazardous substance, Liquid, N.O.S. (chlorinated Paraffins C14-C17)	Environmentally Hazardous substance, Liquid, N.O.S. (chlorinated Paraffins C14-C17)
14.3. Transport hazard class(es)			
 9	 9	 9	 9
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
		 MARINE POLLUTANT	
14.6. Special precautions for user			
Special provisions: 274, 335, 375, 601 Limited quantity (LQ): Hazard identification number (Kemler No.): 90 Classification code: M6 tunnel restriction code: (E) Remark:	Special provisions: 274, 335, 375, 601 Limited quantity (LQ): Classification code: - Remark:	Special provisions: 274, 335, 969 Limited quantity (LQ): LQ 5 L EmS-No.: F-A, ; S-F Remark:	Special provisions: 274, 331, 335, 375 Limited quantity (LQ): LQ 5 L Remark:

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

Restrictions on use:

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

15.1.2. National regulations

 [DE] National regulations

Water hazard class (WGK)

WGK:

2 - deutlich wassergefährdend

Source:

Self-classification (mixture; calculation rule).

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15.2. Chemical Safety Assessment

No information available.

15.3. Additional information

No data available

SECTION 16: Other information

16.1. Indication of changes

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Indication of changes

SECTION 15: Regulatory information Water hazard class (WGK)

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
Reproductive toxicity (<i>Lact.</i>)	H362: May cause harm to breast-fed children.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 1</i>)	H410: Very toxic 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.
H362	May cause harm to breast-fed children.
H410	Very toxic to aquatic life with long lasting effects.

Supplemental Hazard information (EU)	
EUH066	Repeated exposure may cause skin dryness or cracking.

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.