

# SAFETY DATA SHEET

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

Revision date: 25-Feb-2019

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Version: 2019.1 en

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## CURTIS Grind 6 CC

### 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. |                          |
| Acute toxicity (inhalative) ( <i>Acute Tox. 4</i> ) | H332: Harmful if inhaled.                           |                          |

#### 2.2. Label elements

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

Hazard pictograms:



**GHS08**  
Health hazard



**GHS07**  
Exclamation mark

Signal word: Danger

Hazard components for labelling:

Dec-1-ene, dimers, hydrogenated

| hazard statements for health hazards |   |
|--------------------------------------|---|
| H304                                 | May be fatal if swallowed and enters airways. |
| H332                                 | Harmful if inhaled.                           |

Supplemental Hazard information (EU): -

| Precautionary statements Prevention |   |
|-------------------------------------|---|
| P261                                | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P271                                | Use only outdoors or in a well-ventilated area.   |

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### Precautionary statements Response

|             |  |
|-------------|--|
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P310        | 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

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

#### Description:

Mixture of synthetic carbon hydrogens and additifs.

#### Additional information:

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

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

| product identifiers  | Substance name<br>Classification according to Regulation (EC) No 1272/2008<br>[CLP]            | Concentration |
|--|--|---------------|
| CAS No.: 68649-11-6<br>EC No.: 500-228-5                                     | <b>Dec-1-ene, dimers, hydrogenated</b><br>Acute Tox. 4, Asp. Tox. 1<br><b>Danger</b> H304-H332 | ≥ 90<br>Wt %  |
| CAS No.: 78-42-2<br>EC No.: 201-116-6<br>REACH No.:<br>01-2119517575-36-0000 | <b>tris(2-ethylhexyl) phosphate</b><br>Eye Irrit. 2, Skin Irrit. 2<br>H315-H319                | 1 - 5<br>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 data available

### 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

##### Hazardous combustion products:

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>)

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

#### 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

### 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.

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### 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 15-30 °C  
Maximum storage period (time) 2 years

### 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<br>② short-term occupational exposure limit value<br>③ Instantaneous value<br>④ Monitoring and observation processes<br>⑤ Remark |
|--------------------------------------|--|--|
| DFG (DE)                             | Dec-1-ene, dimers, hydrogenated<br>CAS No.: 68649-11-6 | ① 5 mg/m <sup>3</sup><br>② 20 mg/m <sup>3</sup><br>⑤ (alveolengängige Fraktion)  |

#### 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:

Eye glasses with side protection

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### 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

Wearing time with occasional contact (splashes):

Thickness of the glove material : 0,40 mm

Breakthrough time (maximum wearing time) : > 30 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:

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

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

## SECTION 9: Physical and chemical properties

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

#### Appearance

**Physical state:** Liquid

**Colour:** colourless

**Odour:** Mineral oil

#### Safety relevant basis data

| parameter                                    |                          | at °C | Method           | Remark              |
|--|--------------------------|-------|------------------|---------------------|
| pH   | <i>not applicable</i>    | 0 °C  |                  |                     |
| Melting point                                | <i>not determined</i>    |       |                  |                     |
| Freezing point                               | -20 °C                   |       |                  |                     |
| Initial boiling point and boiling range      | > 240 - 0 °C             |       |                  | pressure: 1013 mbar |
| Decomposition temperature                    | <i>not determined</i>    |       |                  |                     |
| Flash point                                  | > 150 °C                 |       | DIN EN ISO 2592  |                     |
| Evaporation rate                             | <i>not determined</i>    |       |                  |                     |
| Auto-ignition temperature                    | > 220 °C                 |       |                  |                     |
| Upper/lower flammability or explosive limits | 0.6 - 6.5 %              |       |                  |                     |
| Vapour pressure                              | 0.001 hPa                | 20 °C |                  |                     |
| Vapour density                               | <i>not determined</i>    |       |                  |                     |
| Density                                      | 0.802 g/cm <sup>3</sup>  | 15 °C | DIN EN ISO 12185 |                     |
| 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                          | ≈ 5.5 mm <sup>2</sup> /s | 40 °C | DIN EN ISO 3104  |                     |

### 9.2. Other information

No data available

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### 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 under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No hazardous reactions known.

#### 10.4. Conditions to avoid

No information available.

#### 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

| CAS No.    | Substance name                  | Toxicological information  |
|------------|---------------------------------|--|
| 68649-11-6 | Dec-1-ene, dimers, hydrogenated | <b>LD<sub>50</sub> oral:</b><br>>2,000 mg/kg (Rat)<br><b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b><br>3.8 mg/l 4 h (Rat)<br><b>LD<sub>50</sub> dermal:</b><br>>2,000 mg/kg (Rat) |

#### Acute oral toxicity:

Toxicological data are not available.  
Data apply to the main component.

#### Acute dermal toxicity:

Toxicological data are not available.  
Data apply to the main component.

#### Acute inhalation toxicity:

Toxicological data are not available.  
Data apply to the main component.

#### Skin corrosion/irritation:

slightly irritant but not relevant for classification.  
The statement is derived from the properties of the single components.

#### Serious eye damage/irritation:

slightly irritant but not relevant for classification.  
The statement is derived from the properties of the single components.

#### 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:

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).

#### Effects in sewage plants:

No information available.

#### Assessment/classification:

harmless to aquatic organisms up to the tested concentration

### 12.2. Persistence and degradability

#### Biodegradation:

No information available.

### 12.3. Bioaccumulative potential

No data 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 10 * | synthetic machining oils |
|------------|--------------------------|

\*: 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.

Packing which cannot be properly cleaned must be disposed of.

Non-contaminated packages may be recycled.

## SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

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| Land transport (ADR/RID)                                   | Inland waterway craft (ADN)                                | Sea transport (IMDG)                                       | Air transport (ICAO-TI / IATA-DGR)                         |
|--|--|--|--|
| <b>14.1. UN-No.</b>  |  |  |  |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| <b>14.2. UN proper shipping name</b>                       |  |  |  |
| No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. | No dangerous good in sense of these transport regulations. |
| <b>14.3. Transport hazard class(es)</b>                    |  |  |  |
| not relevant   |  |  |  |
| <b>14.4. Packing group</b>                                 |  |  |  |
| not relevant   |  |  |  |
| <b>14.5. Environmental hazards</b>                         |  |  |  |
| not relevant   |  |  |  |
| <b>14.6. Special precautions for user</b>                  |  |  |  |
| 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**

No data available

**15.2. Chemical Safety Assessment**

No information available.

### SECTION 16: Other information

**16.1. Indication of changes**

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Indication of changes

SECTION 2: Hazards identification

SECTION 3: Composition / information on ingredients

SECTION 8: Exposure controls/personal protection

SECTION 11: Toxicological information

SECTION 12: Ecological information

**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. |                          |
| Acute toxicity (inhalative) ( <i>Acute Tox. 4</i> ) | H332: Harmful if inhaled.                           |                          |



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### 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.                       |
| H319              | Causes serious eye irritation.                |
| H332              | Harmful if inhaled.                           |

### 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.