

# SAFETY DATA SHEET

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

Revision date: 05-Nov-2015

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## CURTIS BioCut 23 EP

### 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]:**

This mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

#### 2.2. Label elements

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

According to EC directives or the corresponding national regulations the product does not have to be labelled.

**Hazard statements:** -

**Supplemental Hazard information (EU):** -

**Precautionary statements:** -

#### 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 synthetic fatty acid esters and additives.

**Additional information:**

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

### 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.

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### 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 information 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

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>)

### 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.

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

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

#### 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

Disposal: see section 13  
Personal protection equipment: see section 8

### 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.

##### Fire prevent measures:

Usual measures for fire prevention.

Keep away from sources of ignition. - No smoking.

Take precautionary measures against static discharges.

##### 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

Wash hands before breaks and after work.

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

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

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

##### Packaging materials:

Keep/Store only in original container.

##### Requirements for storage rooms and vessels:

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

Only use containers specifically approved for the substance/product.

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

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.

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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

### Respiratory protection:

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

### Other protection measures:

Set out skin protection guidelines.

Wash hands before breaks and after work.

Apply skin care products after work.

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

### 8.2.3. Environmental exposure controls

See section 7. No additional measures necessary.

### 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/freezing point                 | <i>not determined</i>   |       |                   |        |
| Freezing point                               | <i>not determined</i>   |       |                   |        |
| Initial boiling point and boiling range      | > 200 °C                |       |                   |        |
| Decomposition temperature (°C):              | <i>not determined</i>   |       |                   |        |
| Flash point                                  | 190 - 0 °C              |       | DIN EN ISO 25 92  |        |
| Evaporation rate                             | <i>not determined</i>   |       |                   |        |
| Ignition temperature in °C                   | > 240 °C                |       |                   |        |
| Upper/lower flammability or explosive limits | 0.6 - 7 %               |       |                   |        |
| Vapour pressure                              | <i>not determined</i>   |       |                   |        |
| Vapour density                               | <i>not determined</i>   |       |                   |        |
| Density                                      | 0.91 g/cm <sup>3</sup>  | 15 °C | DIN EN ISO 12 185 |        |
| 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>   | 40 °C | DIN EN ISO 31 04  |        |
| Kinematic viscosity                          | ≈ 23 mm <sup>2</sup> /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.

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### 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

### 10.6. Hazardous decomposition products

No decomposition under normal conditions.

Combustion products:

Carbon dioxide. Carbon monoxide

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute oral toxicity:

Toxicological data are not available.

#### Acute dermal toxicity:

Toxicological data are not available.

#### Acute inhalation toxicity:

Toxicological data are not available.

#### Skin corrosion/irritation:

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

Not an irritant.

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

#### Eye damage/irritation:

Not an irritant.

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

#### Respiratory or skin sensitisation:

not sensitising.

#### Carcinogenicity:

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

#### STOT-single exposure:

No information available.

#### STOT-repeated exposure:

No information available.

#### Aspiration hazard:

For viscosity data, see section 9.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Aquatic toxicity:

There are no data available on the mixture itself.

#### Assessment/classification:

harmless to aquatic organisms up to the tested concentration

### 12.2. Persistence and degradability

#### Biodegradation:

Biodegradable.

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

There are no data available on the mixture itself.

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### 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 10 * | synthetic machining oils            |
| 12 01 19 * | readily biodegradable machining oil |

\*: 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.  
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

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## CURTIS BioCut 23 EP

### 15.1.2. National regulations

 [DE] National regulations

#### Störfallverordnung

**Remark:**

-

#### Water hazard class (WGK)

**WGK:**

1 - schwach wassergefährdend

**Source:**

Anh. 4

### 15.2. Chemical Safety Assessment

No information available.

### 15.3. Additional information

No data available

## SECTION 16: Other information

### 16.1. Indication of changes

(previous version: 2013.1

05.11.2015 Version 2015.1

Indication of changes None.

### 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]:**

This mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

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

No data available

### 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.