

# SAFETY DATA SHEET

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

Revision date: 07-Aug-2015

Print date: 07-Aug-2015



Page 1/8

## CURTIS BioCut 40 EP

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

#### 1.1. Product identifier

Trade name/designation:

CURTIS BioCut 40 EP

#### 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
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	

#### 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 for environmental hazards	
H412	Harmful to aquatic life with long lasting effects.

Supplemental Hazard information (EU): -

Precautionary statements Prevention	
P273	Avoid release to the environment.

#### 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 natural fatty acid derivatives and additives.

Additional information:

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

# SAFETY DATA SHEET

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

Revision date: 07-Aug-2015

Print date: 07-Aug-2015



Page 2/8

## CURTIS BioCut 40 EP

### Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 4259-15-8 EC No.: 224-235-5 REACH No.: 01-2119493635-27-0000	<b>2-Ethylhexyl-zinkdithiophosphate</b> Eye Dam. 1, Aquatic Chronic 2 <b>Danger</b> H318-H411	0.5 - 1
CAS No.: 128-37-0 EC No.: 204-881-4	<b>2,6-di-tert-butyl-p-cresol</b> Aquatic Acute 1, Aquatic Chronic 1 <b>Warning</b> H400-H410	0.5 - 1

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 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>). Phosphorus oxides. 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.

# SAFETY DATA SHEET

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

**Revision date:** 07-Aug-2015

**Print date:** 07-Aug-2015



Page 3/8

## CURTIS BioCut 40 EP

### 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 containment:

Cover drains.  
Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

##### 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

### 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

##### Fire prevent measures:

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 in a cool, well-ventilated place.  
Provide for retaining containers, eg. floor pan without outflow.  
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

# SAFETY DATA SHEET

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

Revision date: 07-Aug-2015

Print date: 07-Aug-2015



Page 4/8

## CURTIS BioCut 40 EP

### 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 <sup>3</sup> ② 40 mg/m <sup>3</sup> ⑤ (einatembare 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:

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:

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

# SAFETY DATA SHEET

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

Revision date: 07-Aug-2015

Print date: 07-Aug-2015



Page 5/8

## CURTIS BioCut 40 EP

### SECTION 9: Physical and chemical properties

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

##### Appearance

**Physical state:** liquid

**Colour:** red brown

**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	> 160 °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 - 6.5 %			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	0.92 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	≈ 36 - 40 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.

#### 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: see SECTION 5: Firefighting measures

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute oral toxicity:

Toxicological data are not available.

# SAFETY DATA SHEET

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

**Revision date:** 07-Aug-2015

**Print date:** 07-Aug-2015



Page 6/8

## CURTIS BioCut 40 EP

### 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:

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

## 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 evaluation Very toxic to fish.

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

#### Effects in sewage plants:

Poorly watersoluble, inorganic product. Can be mechanically precipitated to a large extent in biological sewage plants.

#### Assessment/classification:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 12.2. Persistence and degradability

#### Biodegradation:

Readily biodegradable (according to OECD criteria). Data apply to the main component.

### 12.3. Bioaccumulative potential

No data available

### 12.4. Mobility in soil

There are no data available on the mixture itself.

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

# SAFETY DATA SHEET

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

Revision date: 07-Aug-2015

Print date: 07-Aug-2015



Page 7/8

## CURTIS BioCut 40 EP

### 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 99	wastes from shaping and physical and mechanical surface treatment of metals and plastics: Wastes not otherwise specified
----------	--

#### 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

##### 15.1.2. National regulations

 [DE] National regulations

Störfallverordnung

Remark:

-

#### Water hazard class (WGK)

##### WGK:

1 - schwach wassergefährdend

# SAFETY DATA SHEET

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

Revision date: 07-Aug-2015

Print date: 07-Aug-2015



Page 8/8

## CURTIS BioCut 40 EP

### 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: 2011.1

07.08.2015 Version 2015.1

SECTION 2: Hazards identification

SECTION 3: Composition / information on ingredients

SECTION 8: Exposure controls/personal protection

SECTION 12: Ecological information

SECTION 13: Disposal considerations

### 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
Hazardous to the aquatic environment (Aquatic Chronic 3)	H412: Harmful to aquatic life with long lasting effects.	

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

Hazard statements	
H318	Causes serious eye damage.
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.