

# SAFETY DATA SHEET

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

Revision date: 01-Apr-2016

Print date: 01-Apr-2016



Page 1/9

## CURTIS Grimax CC

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

#### 1.1. Product identifier

Trade name/designation:

CURTIS Grimax CC

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture:

Water-miscible coolant lubricant

#### 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
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	
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:



**GHS07**

Exclamation mark

**Signal word:** Warning

#### hazard statements for health hazards

H315 Causes skin irritation.

H319 Causes serious eye irritation.

#### hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

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

#### Precautionary statements Prevention

P264 Wash Hände thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

# SAFETY DATA SHEET

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

Revision date: 01-Apr-2016

Print date: 01-Apr-2016



Page 2/9

## CURTIS Grimax CC

### Precautionary statements Response

P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.

### 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 corrosion inhibitors and additives in aqueous solution.

#### 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.: 122-99-6 EC No.: 204-589-7 REACH No.: 01-2119488943-21-0000	<b>2-phenoxyethanol</b> Acute Tox. 4, Eye Irrit. 2 <b>Warning</b> H302-H319	5 - 10 Wt %
CAS No.: 95-14-7 EC No.: 202-394-1 REACH No.: 01-2119979079-20	<b>benzotriazole</b>	5 - 10 Wt %
CAS No.: 112-34-5 EC No.: 203-961-6 REACH No.: 01-2119475104-44-0006	<b>2-(2-butoxyethoxy)ethanol</b> Eye Irrit. 2 <b>Warning</b> H319	1 - 5 Wt %
CAS No.: 1310-58-3 EC No.: 215-181-3 REACH No.: 01-2119487136-33-0000	<b>potassium hydroxide</b> Skin Corr. 1A, Eye Dam. 1, Met. Corr. 1, Acute Tox. 4 <b>Danger</b> H290-H302-H314-H318	1 - 2 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 drunk in little sips (dilution effect).

Do NOT induce vomiting.

Call a physician immediately.

# SAFETY DATA SHEET

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

**Revision date:** 01-Apr-2016

**Print date:** 01-Apr-2016



Page 3/9

## CURTIS Grimax CC

### 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

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

The product itself does not burn.

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 (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</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:

Keep unprotected people away and stay on the upwind side.

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 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

No data available

### 6.5. Additional information

See section 8. + 13.

## 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.

#### Environmental precautions:

Shafts and sewers must be protected from entry of the product.

# SAFETY DATA SHEET

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

Revision date: 01-Apr-2016

Print date: 01-Apr-2016



Page 4/9

## CURTIS Grimax CC

### Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff.  
see 8.2

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

#### Technical measures and storage conditions:

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

#### 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

**Storage class:** 12 - non-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 max. 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-phenoxyethanol CAS No.: 122-99-6	① 20 ppm (110 mg/m <sup>3</sup> ) ② 40 ppm (220 mg/m <sup>3</sup> )
TRGS 900 (DE)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67 mg/m <sup>3</sup> ) ② 15 ppm (100.5 mg/m <sup>3</sup> )
IOELV (EU)	2-(2-butoxyethoxy)ethanol CAS No.: 112-34-5	① 10 ppm (67.5 mg/m <sup>3</sup> ) ② 15 ppm (101.2 mg/m <sup>3</sup> )
TRGS 900 (DE)	Poly(oxy-1,2-ethanediyl),?-hydro-?-hydroxy- Ethane-1,2-diol, ethoxylated CAS No.: 25322-68-3	① 1,000 mg/m <sup>3</sup> ② 8,000 mg/m <sup>3</sup>

#### 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.

# SAFETY DATA SHEET

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

Revision date: 01-Apr-2016

Print date: 01-Apr-2016



Page 5/9

## CURTIS Grimax CC

### 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

### Other protection measures:

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

Set out skin protection guidelines. Before starting work, apply water-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: light yellow

Odour: characteristic

#### Safety relevant basis data

parameter		at °C	method	Remark
pH	8.9 - 9	20 °C		5 Wt %
Melting point/freezing point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	> 100 °C			
Decomposition temperature (°C):	<i>not determined</i>			
Flash point	<i>not applicable</i>		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	<i>No data available</i>			
Vapour pressure	<i>No data available</i>			
Vapour density	<i>not determined</i>			
Density	1.16 g/cm <sup>3</sup>	15 °C	DIN EN ISO 12 185	
Bulk density	<i>not determined</i>			
Water solubility (g/L)	easily soluble			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	≈ 20 mm <sup>2</sup> /s	20 °C	DIN EN ISO 31 04	

### 9.2. Other information

No data available

# SAFETY DATA SHEET

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

**Revision date:** 01-Apr-2016

**Print date:** 01-Apr-2016



Page 6/9

## CURTIS Grimax CC

### 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

Oxidising agent, strong, Acid

#### 10.6. Hazardous decomposition products

No decomposition under normal conditions.

Combustion products:

Carbon dioxide. Carbon monoxide Nitrogen oxides (NOx)

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute oral toxicity:

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

##### Acute dermal toxicity:

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

##### Acute inhalation toxicity:

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

##### Skin corrosion/irritation:

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

Irritating to skin.

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

##### Eye damage/irritation:

Irritating to eyes.

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

##### Respiratory or skin sensitisation:

not sensitising.

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

##### 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.

### 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).

##### Assessment/classification:

Harmful to aquatic organisms.

#### 12.2. Persistence and degradability

##### Biodegradation:

Part of the components is biodegradable.

# SAFETY DATA SHEET

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

Revision date: 01-Apr-2016

Print date: 01-Apr-2016



Page 7/9

## CURTIS Grimax CC

### 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

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

### 12.6. Other adverse effects

No information 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 09 *	machining emulsions and solutions free of halogens
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\*: 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

# SAFETY DATA SHEET

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

Revision date: 01-Apr-2016

Print date: 01-Apr-2016



Page 8/9

## CURTIS Grimax CC

### 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

##### 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: 2015.1)

01.04.2016 Version 2016.1

Indication of changes

SECTION 2: Hazards identification

SECTION 3: Composition / information on ingredients

SECTION 8: Exposure controls/personal protection

#### 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
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	
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	
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

#### 16.6. Training advice

No data available



# SAFETY DATA SHEET

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

**Revision date:** 01-Apr-2016

**Print date:** 01-Apr-2016



Page 9/9

## CURTIS Grimax CC

### 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.