

SAFETY DATA SHEET

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

Revision date: 4 Mar 2020

Print date: 4 Apr 2020

Version: 2020.1

Page 1/9



CURTIS S 70 Bio

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

1.1. Product identifier

Trade name/designation:

CURTIS S 70 Bio

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
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	

*

2.2. Label elements

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

Hazard pictograms:



GHS07

Exclamation mark

Signal word: Warning

Hazard components for labelling:

3-iodo-2-propynyl butylcarbamate; 1,2-benzisothiazol-3(2H)-one; 2-methyl-2H-isothiazol-3-one

hazard statements for health hazards	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

Precautionary Statements Prevention	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

SAFETY DATA SHEET

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

Revision date: 4 Mar 2020

Print date: 4 Apr 2020

Version: 2020.1

Page 2/9



CURTIS S 70 Bio

Precautionary Statements Response

P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.

2.3. Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description:

Mixture of natural fatty acid derivatives and additives.

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 122-99-6 EC No.: 204-589-7 REACH No.: 01-2119488943-21-0000	2-phenoxyethanol Acute Tox. 4, Eye Irrit. 2 Warning H302-H319	< 10 Wt %
CAS No.: 78-96-6 EC No.: 201-162-7 REACH No.: 01-2119475331-43-0000	1-aminopropan-2-ol Acute Tox. 4, Eye Dam. 1, Skin Corr. 1B Danger H312-H314-H318	1 - < 3 Wt %
CAS No.: 55406-53-6 EC No.: 259-627-5	3-iodo-2-propynyl butylcarbamate Acute Tox. 3, Acute Tox. 4, Aquatic Acute 1, Aquatic Chronic 1, Eye Dam. 1, STOT RE 1, Skin Sens. 1 Danger H302-H317-H318-H331-H372-H410 M-factor (acute): 10 M-factor (chronic): 1	0.1 - < 0.25 Wt %
CAS No.: 2634-33-5 EC No.: 220-120-9	1,2-benzisothiazol-3(2H)-one Acute Tox. 4, Aquatic Acute 1, Eye Dam. 1, Skin Irrit. 2, Skin Sens. 1 Danger H302-H315-H317-H318-H400	0.005 - < 0.05 Wt %
CAS No.: 2682-20-4 EC No.: 220-239-6	2-methyl-2H-isothiazol-3-one Acute Tox. 2, Acute Tox. 3, Aquatic Acute 1, Aquatic Chronic 2, Eye Dam. 1, Skin Corr. 1B, Skin Sens. 1A Danger H301-H314-H317-H318-H330-H400-H411	0.005 - < 0.05 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 flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

SAFETY DATA SHEET

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

Revision date: 4 Mar 2020

Print date: 4 Apr 2020

Version: 2020.1

Page 3/9



CURTIS S 70 Bio

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

Respiratory complaints, Nausea

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:

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) Nitrogen oxides (NO_x).

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:

- Special danger of slipping by leaking/spilling product.
- Use personal protection equipment.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

- Do not allow to enter into surface water or drains.
- Cover drains.

6.3. Methods and material for containment and cleaning up

For containment:

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

For cleaning up:

- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
- Use approved industrial vacuum cleaner for removal.

6.4. Reference to other sections

- Personal protection equipment: see section 8
- Disposal: see section 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.

SAFETY DATA SHEET

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

Revision date: 4 Mar 2020

Print date: 4 Apr 2020

Version: 2020.1

Page 4/9



CURTIS S 70 Bio

Fire prevent measures:

Usual measures for fire prevention.

Measures to prevent aerosol and dust generation:

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

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.
Apply skin care products after work.
Draw up and observe skin protection programme.

7.2. Conditions for safe storage, including any incompatibilities

Packaging materials:

Unsuitable container/equipment material: Zinc

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: 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
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 1 ppm (5.7 mg/m ³) ② 1 ppm (5.7 mg/m ³) ⑤ (Aerosol und Dampf)
TRGS 900 (DE)	1-aminopropan-2-ol CAS No.: 78-96-6	① 2 ppm (5.8 mg/m ³) ② 4 ppm (11.6 mg/m ³) ⑤ (Aerosol und Dampf)
TRGS 900 (DE)	3-iodo-2-propynyl butylcarbamate CAS No.: 55406-53-6	① 0.005 ppm (0.058 mg/m ³) ② 0.01 ppm (0.106 mg/m ³) ⑤ (Aerosol und Dampf)

8.1.2. Biological limit values

No data available

SAFETY DATA SHEET

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

Revision date: 4 Mar 2020

Print date: 4 Apr 2020

Version: 2020.1

Page 5/9



CURTIS S 70 Bio

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
2-phenoxyethanol CAS No.: 122-99-6	8.07 mg/m ³	① DNEL worker ② inhalative, long-term, systemic
2-phenoxyethanol CAS No.: 122-99-6	34.72 mg/kg	① DNEL worker ② dermal, long-term, systemic

Substance name	PNEC Value	① PNEC type
2-phenoxyethanol CAS No.: 122-99-6	0.943 mg/l	① PNEC aquatic, freshwater
2-phenoxyethanol CAS No.: 122-99-6	0.0943 mg/l	① PNEC aquatic, marine water
2-phenoxyethanol CAS No.: 122-99-6	24.8 mg/l	① PNEC sewage treatment plant
2-phenoxyethanol CAS No.: 122-99-6	7.2366 mg/kg	① PNEC sediment, freshwater

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Substance/mixture related measures to prevent exposure during identified uses

8.2.2. Personal protection equipment



Eye/face protection:

Eye glasses with side protection

Skin protection:

Hand protection: Tested protective gloves must be worn - By long-term hand contact

Suitable material: Suitable material: NBR (Nitrile rubber) Butyl caoutchouc (butyl rubber)

Thickness of the glove material: 0,75 mm

Breakthrough time (maximum wearing time): > 480 min.

Respiratory protection:

Usually no personal respirative protection necessary.

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.

Before starting work, apply water-resistant skincare preparations.

Avoid contact with skin, eyes and clothes.

8.2.3. Environmental exposure controls

Technical measures to prevent exposure

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	≈ 9.2 - 9.4	20 °C		5 Wt %
Melting point	not applicable			
Freezing point	not determined			
Initial boiling point and boiling range	not determined			

SAFETY DATA SHEET

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

Revision date: 4 Mar 2020

Print date: 4 Apr 2020

Version: 2020.1



Page 6/9

CURTIS S 70 Bio

parameter		at °C	Method	Remark
Decomposition temperature	<i>not determined</i>			
Flash point	> 100 - 0 °C		DIN EN ISO 2592	
Evaporation rate	<i>not applicable</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not applicable</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	0.945 g/cm ³	15 °C	DIN EN ISO 12185	
Bulk density	<i>not applicable</i>			
Water solubility	partially miscible			
Partition coefficient: n-octanol/ water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	≈ 80 mm ² /s	20 °C	DIN EN ISO 3104	

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 under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Materials to avoid Oxidising agent

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

* 11.1. Information on toxicological effects

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

There are no data available on the mixture itself.

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.

Causes serious eye irritation.

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

SAFETY DATA SHEET

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

Revision date: 4 Mar 2020

Print date: 4 Apr 2020

Version: 2020.1

Page 7/9



CURTIS S 70 Bio

Respiratory or skin sensitisation:

May cause sensitization by skin contact.

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

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.

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:

harmless to aquatic organisms up to the tested concentration

12.2. Persistence and degradability

Biodegradation:

Part of the components is biodegradable.

12.3. Bioaccumulative potential

Accumulation / Evaluation:

No data available

12.4. Mobility in soil

There are no data available on the mixture itself.

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 09 *	machining emulsions and solutions free of halogens
------------	--

*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Product:

Dispose of waste according to applicable legislation. Observe mixture permissions according to "Altölverordnung (Waste oil directive)".

Appropriate disposal / Package:

Dispose of waste according to applicable legislation. Delivery to an approved waste disposal company. Non-contaminated packages may be recycled.

SAFETY DATA SHEET

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

Revision date: 4 Mar 2020

Print date: 4 Apr 2020

Version: 2020.1

Page 8/9



CURTIS S 70 Bio

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN-No.			
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.
14.2. UN proper shipping name			
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.
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

Water hazard class (WGK)

WGK:

2 - deutlich wassergefährdend

Source:

Self-classification (mixture; calculation rule).

15.2. Chemical Safety Assessment

No information available.

SECTION 16: Other information

16.1. Indication of changes

2.2.	Label elements
3.2.	Mixtures
11.1.	Information on toxicological effects

(previous version: 2018.1)

04.03.2020 Version 2020.1

16.2. Abbreviations and acronyms

No data available

SAFETY DATA SHEET

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

Revision date: 4 Mar 2020

Print date: 4 Apr 2020

Version: 2020.1

Page 9/9



CURTIS S 70 Bio

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
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
Respiratory or skin sensitisation (<i>Skin Sens. 1</i>)	H317: May cause an allergic skin reaction.	

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

Hazard statements	
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure. (Kehlkopf)
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

No data available

* Data changed compared with the previous version