

**Opticool 372 - Safety Data Sheet 1907/2006/EC - REACH (GB)**

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**SECTION 1: Identification of the substance / preparation and of the company**

**1.1 Product identifier**

**Opticool 372**

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

**1.2.1 Relevant uses**

Metalworking

**1.2.2 Uses advised against**

None known.

**1.3 Details of the supplier of the safety data sheet**

**Company**

Chesterton International GmbH  
Am Lenzenfleck 23  
85737 Ismaning / GERMANY  
Phone +49 89-996546-0  
Fax +49 89-996546-50  
Homepage [www.chesterton.com/GER/Pages/default.aspx](http://www.chesterton.com/GER/Pages/default.aspx)  
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**Address enquiries to**

**Technical information**

[customer.service@chesterton.com](mailto:customer.service@chesterton.com)

**Safety Data Sheet**

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de)

**1.4 Emergency phone**

**Advisory body**

+49 (0)89-19240 (24h) (english)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]**

No classification.

**2.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC**

No classification.

**2.2 Label elements**

The product is required to be labelled in accordance with EC-Directives.

**Labelling according to Regulation (EC) 1272/2008**

**Hazard pictograms**

none

**Signal word**

none

**Hazard statements**

none

**Precautionary statements**

none

**Special labelling**

EUH210 Safety data sheet available on request.

Contains: 3-iodo-2-propynyl butylcarbamate. EUH208 May produce an allergic reaction.

**2.3 Other hazards**

**Human health dangers**

Has a degreasing effect on the skin.  
Frequent persistent contact with the skin can cause skin irritation.  
If swallowed or in the event of vomiting, risk of product entering the lungs.

**Other hazards**

Further hazards were not determined with the current level of knowledge.

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### SECTION 3: Composition / Information on ingredients

**Product-type:**

The product is a mixture.

| Range [%] | Substance  |
|-----------|--|
| < 5,5     | Boric acid   |
|           | CAS: 10043-35-3, EINECS/ELINCS: 233-139-2, EU-INDEX: 005-007-00-2, ECB-Nr.: 01-2119486683-25-XXXX  |
|           | GHS/CLP: Repr. 1B: H360FD  |
|           | EEC: T, R 60-61  |
| 1 - 5     | 2-(2-Butoxyethoxy)ethanol  |
|           | CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, ECB-Nr.: 01-2119475104-44-XXXX  |
|           | GHS/CLP: Eye Irrit. 2: H319  |
| 1 - 5     | 2-Butyloctan-1-ol  |
|           | CAS: 3913-02-8, EINECS/ELINCS: 223-470-0   |
|           | EEC: N, R 50   |
| 1 - 5     | Fatty acid amide, ethoxylated  |
|           | CAS: 85536-23-8, EINECS/ELINCS: Polymer  |
|           | GHS/CLP: Skin Irrit. 2: H315   |
| < 0,5     | 3-iodo-2-propynyl butylcarbamate   |
|           | CAS: 55406-53-6, EINECS/ELINCS: 259-627-5, EU-INDEX: 616-212-00-7  |
|           | GHS/CLP: Acute Tox. 3: H331 - Acute Tox. 4: H302 - STOT RE 1: H372 - Eye Dam. 1: H318 - Skin Sens. 1: H317 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M = 10 |
|           | EEC: T-N, R 22-23-41-43-48/23-50   |

**Comment on component parts**

Contains less than 3% w/w DMSO-extract (only for mineral oils)  
 SVHC (Candidate List of Substances of Very High Concern for authorisation) ≥ 0,1%  
 CAS 10043-35-3 - Boric acid  
 For full text of H-statements and R-phrases: see SECTION 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

**General information**

Take off contaminated clothing and wash before reuse.

**Inhalation**

Ensure supply of fresh air.  
 In the event of symptoms seek for medical treatment.

**Skin contact**

When in contact with the skin, clean with soap and water.  
 Consult a doctor if skin irritation persists.

**Eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 If eye irritation persists: Get medical advice/attention.

**Ingestion**

Supply with medical care.  
 Do not induce vomiting.  
 Rinse out mouth and give plenty of water to drink.

#### 4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.  
 If swallowed or in the event of vomiting, risk of product entering the lungs.  
 Forward this sheet to the doctor.

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media**

Foam, dry powder, water spray jet, carbon dioxide.

**Extinguishing media that must not be used**

Full water jet.

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### 5.2 Special hazards arising from the substance or mixture

Not combusted hydrocarbons.  
Carbon monoxide (CO).  
Carbon dioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>).

### 5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.  
Use self-contained breathing apparatus.  
Collect contaminated firefighting water separately, must not be discharged into the drains.  
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use breathing apparatus if exposed to vapours/dust/aerosol.  
High risk of slipping due to leakage/spillage of product.  
Forms slippery surfaces with water.  
Use personal protective equipment.

### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).  
Do not discharge into the subsoil/soil.  
Do not discharge into the drains/surface waters/groundwater.

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

Take up with absorbent material (e.g. general-purpose binder).  
Dispose of absorbed material in accordance within the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid formation of oil dust.  
Avoid spilling or spraying in enclosed areas.  
Keep away from all sources of ignition - Refrain from smoking.  
Do not eat or drink when working.  
Wash hands before breaks and after work.  
Use barrier skin cream.

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

Only use containers that are approved specifically for the substance/product.  
Prevent penetration into the ground.  
Do not store together with oxidizing agents.  
Keep container in a well-ventilated place.  
Keep container tightly closed.  
Keep away from frost.  
Protect from sun.  
Recommended storage temperature: 15-25 °C.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

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### SECTION 8: Exposure controls / personal protection

#### 8.1 Control parameters

##### Ingredients with occupational exposure limits to be monitored (GB)

| Range [%] | Substance  |
|-----------|--|
| 1 - 5     | 2-(2-Butoxyethoxy)ethanol  |
|           | CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, ECB-Nr.: 01-2119475104-44-XXXX              |
|           | Long-term exposure: 10 ppm, 67,5 mg/m <sup>3</sup>   |
|           | Short-term exposure (15-minute): 15 ppm, 101,2 mg/m <sup>3</sup>   |
| 1 - <5,5  | Boric acid   |
|           | CAS: 10043-35-3, EINECS/ELINCS: 233-139-2, EU-INDEX: 005-007-00-2, ECB-Nr.: 01-2119486683-25-XXXX            |
|           | Long-term exposure: 2 mg/m <sup>3</sup> , TWA (inhalable fraction, listed under Borate compounds, inorganic) |

##### Ingredients with occupational exposure limits to be monitored (EU)

| Range [%] | Substance / EC LIMIT VALUES   |
|-----------|---|
| 1 - 5     | 2-(2-Butoxyethoxy)ethanol   |
|           | CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, ECB-Nr.: 01-2119475104-44-XXXX |
|           | Eight hours: 10 ppm, 67,5 mg/m <sup>3</sup>   |
|           | Short-term (15-minute): 15 ppm, 101,2 mg/m <sup>3</sup>   |

#### DNEL

| Range [%] | Substance   |
|-----------|---|
| 1 - 5     | 2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5  |
|           | worker, dermal, Long-term - systemic effects: 20 mg/kg.                                       |
|           | worker, inhalative, Long-term - systemic effects: 67,5 mg/m <sup>3</sup> .                    |
|           | general population, dermal, Long-term - systemic effects: 10 mg/kg.                           |
|           | general population, inhalative, Long-term - systemic effects: 34 mg/m <sup>3</sup> .          |
|           | general population, inhalative, Acute - local effects: 50,6mg/m <sup>3</sup> .                |
| < 5,5     | Boric acid, CAS: 10043-35-3   |
|           | Industrial, dermal, Long-term - systemic effects: 0,34 mg B/kg.                               |
|           | Industrial, inhalative, Long-term - systemic effects: 1,45 mg B/m <sup>3</sup> .              |
|           | general population, inhalative, Acute - local effects: 1,92 mg <sup>3</sup> /m <sup>3</sup> . |
|           | general population, oral, Long-term - systemic effects: 0,17 mg B/kg.                         |

#### PNEC

| Range [%] | Substance  |
|-----------|--|
| 1 - 5     | 2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5                 |
|           | sewage treatment plants (STP), 200 mg/l.                 |
|           | sediment (seaater), 0,4 mg/kg.                           |
|           | sediment (freshwater), 4 mg/kg.                          |
|           | seawater, 0,1 mg/l.                                      |
|           | freshwater, 1 mg/l.                                      |
| < 5,5     | Boric acid, CAS: 10043-35-3                              |
|           | sewage treatment plants (STP), 10,75 mg <sup>3</sup> /l. |
|           | soil, 5,4 mg B/kg.                                       |
|           | sediment (seaater), 1,80 mg B/l.                         |
|           | sediment (freshwater), 1,80 mg B/l.                      |
|           | seawater, 1,35 mg B/l.                                   |
|           | freshwater, 10,35 mg B/l.                                |

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### 8.2 Exposure controls

|  |   |
|--|---|
| <b>Additional advice on system design</b>                          | Ensure adequate ventilation on workstation.   |
| <b>Eye protection</b>  | Safety glasses.   |
| <b>Hand protection</b>   | The details concerned are recommendations. Please contact the glove supplier for further information.<br>In full contact:<br>Nitrile rubber, >480 min (EN 374).<br>Polychloroprene, >480 min (EN 374).<br>In splash contact<br>Nitrile rubber, >60 min (EN 374).  |
| <b>Skin protection</b>   | Solvent-resistant protective clothing.  |
| <b>Other</b>   | Do not inhale gases/vapours/aerosols.<br>Avoid contact with eyes and skin.<br>Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier. |
| <b>Respiratory protection</b>                                      | Breathing apparatus in the event of aerosol or mist formation.<br>Short term: filter apparatus, combination filter A-P1.  |
| <b>Thermal hazards</b>   | not applicable  |
| <b>Delimitation and monitoring of the environmental exposition</b> | Comply with applicable environmental regulations limiting discharge to air, water and soil.   |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |  |
|--|--|
| <b>Form</b>                                      | liquid                                     |
| <b>Color</b>                                     | brown                                      |
| <b>Odor</b>                                      | like mineral oil                           |
| <b>Odour threshold</b>                           | not determined                             |
| <b>pH-value</b>                                  | 9,1 (DIN 51369)(20°C)                      |
| <b>pH-value [1%]</b>                             | not determined                             |
| <b>Boiling point [°C]</b>                        | > 160                                      |
| <b>Flash point [°C]</b>                          | > 140 (DIN EN ISO 2592)                    |
| <b>Flammability [°C]</b>                         | > 240                                      |
| <b>Lower explosion limit</b>                     | 0,6 Vol.-%                                 |
| <b>Upper explosion limit</b>                     | 6,5 Vol.-%                                 |
| <b>Oxidizing properties</b>                      | no   |
| <b>Vapour pressure/gas pressure [kPa]</b>        | 0,1 (20°C)                                 |
| <b>Density [g/ml]</b>                            | 0,987 (DIN EN ISO 12185) (15 °C / 59,0 °F) |
| <b>Bulk density [kg/m³]</b>                      | not applicable                             |
| <b>Solubility in water</b>                       | miscible                                   |
| <b>Partition coefficient [n-octanol/water]</b>   | not determined                             |
| <b>Viscosity</b>                                 | 130 mm²/s (20°C) (DIN EN ISO 3104)         |
| <b>Relative vapour density determined in air</b> | not determined                             |
| <b>Evaporation speed</b>                         | not determined                             |
| <b>Melting point [°C]</b>                        | <-20                                       |
| <b>Autoignition temperature [°C]</b>             | not determined                             |
| <b>Decomposition temperature [°C]</b>            | not determined                             |

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reactions known if used as directed.

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### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

### 10.4 Conditions to avoid

See SECTION 7.2.

### 10.5 Incompatible materials

See SECTION 10.3.

### 10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.

In the event of fire: See SECTION 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

| Range [%] | Substance                                    |
|-----------|--|
| 1 - 5     | 2-Butyloctan-1-ol, CAS: 3913-02-8            |
|           | LD50, oral, Rat: > 2000 mg/kg.               |
| 1 - 5     | 2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5     |
|           | LD50, dermal, Rabbit: > 2000 mg/kg (IUCLID). |
|           | LD50, oral, Rat: > 2000 mg/kg (IUCLID).      |
| < 5,5     | Boric acid, CAS: 10043-35-3                  |
|           | LD50, dermal, Rabbit: > 2000 mg/kg.          |
|           | LD50, oral, Rat: 4100 mg/kg.                 |
|           | LD50, oral, Rat: 3500 mg/kg.                 |
|           | LC50, inhalative, Rat: 2 mg/l.               |

**Serious eye damage/irritation** not determined

**Skin corrosion/irritation** not determined

**Respiratory or skin sensitisation** not determined

**Specific target organ toxicity — single exposure** not determined

**Specific target organ toxicity — repeated exposure** not determined

**Mutagenicity** not determined

**Reproduction toxicity** not determined

**Carcinogenicity** not determined

**General remarks** Frequent persistent contact with the skin can cause skin irritation.

Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. No classification on the basis of the calculation procedure of the preparation directive.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

| Range [%] | Substance   |
|-----------|---|
| 1 - 5     | 2-Butyloctan-1-ol, CAS: 3913-02-8                     |
|           | EC50, (48h), Daphnia magna: < 1 mg/l.                 |
| 1 - 5     | 2-(2-Butoxyethoxy)ethanol, CAS: 112-34-5              |
|           | LC50, (96h), Lepomis macrochirus: 1300 mg/l (IUCLID). |
|           | EC50, (48h), Daphnia magna: > 100 mg/l (IUCLID).      |
| < 5,5     | Boric acid, CAS: 10043-35-3                           |
|           | LC50, (96h), fish: 74 mg B/l.                         |
|           | LC50, (48h), Daphnia magna: 133 mg B/l.               |
|           | NOEC, (21d), Daphnia magna: 6-13 mg B/l.              |
|           | EC10, (96h), Algae: 24 mg B/l.                        |

#### 12.2 Persistence and degradability

|  |  |
|--|--|
| <b>Behaviour in environment compartments</b> | not determined   |
| <b>Behaviour in sewage plant</b>             | not determined   |
| <b>Biological degradability</b>              | Slightly eliminable from water.<br>The product is not readily biodegradable. |

#### 12.3 Bioaccumulative potential

Bioaccumulation is potentially possible.

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

#### 12.6 Other adverse effects

Ecological data of complete product are not available.  
The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.  
Do not discharge product unmonitored into the environment or into the drainage.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

##### Product

Dispose of as hazardous waste.

##### Waste no. (recommended)

120107\*  
120109\*

##### Contaminated packaging

Uncontaminated packaging may be taken for recycling.  
Packaging that cannot be cleaned should be disposed of as for product.

##### Waste no. (recommended)

150102  
150104  
150110\*

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### SECTION 14: Transport information

#### 14.1 UN number

See SECTION 14.2 in accordance with UN shipping name

#### 14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

#### 14.3 Transport hazard class(es)

See SECTION 14.2 in accordance with UN shipping name

#### 14.4 Packing group

See SECTION 14.2 in accordance with UN shipping name

#### 14.5 Environmental hazards

See SECTION 14.2 in accordance with UN shipping name

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EEC-REGULATIONS 1967/548 (1999/45); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC

TRANSPORT-REGULATIONS DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4

- Observe employment restrictions for people none

- VOC (1999/13/CE) not determined

#### 15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### 16.1 R-phrases (SECTION 3)

R 60: May impair fertility.  
R 61: May cause harm to the unborn child.  
R 38: Irritating to skin.  
R 50: Very toxic to aquatic organisms.  
R 36: Irritating to eyes.  
R 22: Harmful if swallowed.  
R 23: Toxic by inhalation.  
R 41: Risk of serious damage to eyes.  
R 43: May cause sensitisation by skin contact.  
R 48/23: Toxic - danger of serious damage to health by prolonged exposure through inhalation.

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**16.2 Hazard statements (SECTION 3)**

H410 Very toxic to aquatic life with long lasting effects.  
H400 Very toxic to aquatic life.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H302 Harmful if swallowed.  
H331 Toxic if inhaled.  
H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H360FD May damage fertility. May damage the unborn child.

**16.3 Abbreviations and acronyms:**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
ELINCS = European List of Notified Chemical Substances  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
TLV@TWA = Threshold limit value – time-weighted average  
TLV@STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

**16.4 Other information**

|                                 |                |
|---------------------------------|----------------|
| <b>Customs Tariff</b>           | not determined |
| <b>Classification procedure</b> |                |
| <b>Modified position</b>        | none           |



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