

Opticool 572 - Safety Data Sheet 1907/2006/EC - REACH (GB)

Date printed 03.07.2015, Revision 03.07.2015

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

1.1 Product identifier

Opticool 572

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

1.2.1 Relevant uses

Metal working fluid

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
E-mail customer.service@chesterton.com

Address enquiries to

Technical information

customer.service@chesterton.com

Safety Data Sheet

sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Skin Irrit. 2: H315 Causes skin irritation.
Eye Irrit. 2: H319 Causes serious eye irritation.
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard pictograms



Signal word

WARNING

Hazard statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.
P332+P313 If skin irritation occurs: Get medical advice / attention.
P337+P313 If eye irritation persists: Get medical advice / attention.
P501 Dispose of contents / container to in accordance with local / regional / national / international regulation.

Special labelling

Contains: 3-iodo-2-propynyl butylcarbamate, 2,2'-[[5-methyl-1H-benzotriazol-1-yl)methyl]imino]bisethanol. 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.

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 - 10	Alcohols, C16-18 and C18-unsatd., ethoxylated CAS: 68920-66-1, EINECS/ELINCS: 500-236-9, Reg-No.: 01-2119489407-26-XXXX GHS/CLP: Skin Irrit. 2: H315 - Aquatic Chronic 2: H411
5 - 10	2-(2-Butoxyethoxy)ethanol CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-XXXX GHS/CLP: Eye Irrit. 2: H319
< 5,5	Boric acid CAS: 10043-35-3, EINECS/ELINCS: 233-139-2, EU-INDEX: 005-007-00-2, Reg-No.: 01-2119486683-25-XXXX GHS/CLP: Repr. 1B: H360FD
1 - 3	3,3'-Methylenebis[5-methyloxazolidine] CAS: 66204-44-2, EINECS/ELINCS: 266-235-8 GHS/CLP: Eye Dam. 1: H318 - Skin Corr. 1B: H314 - Acute Tox. 4: H302 - Acute Tox. 3: H311
0,1 - 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
< 0,25	2,2'-[[[(5-methyl-1H-benzotriazol-1-yl)methyl]imino]bisethanol CAS: 80584-88-9, EINECS/ELINCS: 279-501-3 GHS/CLP: Eye Dam. 1: H318 - Acute Tox. 4: H302 - Skin Sens. 1: H317 - Aquatic Chronic 3: H412

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) \geq 0,1%
CAS 10043-35-3 - Boric acid
For full text of H-statements: 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 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 mouth.

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

Treat symptomatically.

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SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Foam.
Dry powder.
Water spray jet.
Carbon dioxide.
Sand.

Extinguishing media that must not be used Full water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Nitrogen oxides (NO_x).
Not combusted hydrocarbons.

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.

Cool containers at risk with water spray jet.
Collect contaminated firefighting water separately, must not be discharged into the drains.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Use personal protective equipment.
High risk of slipping due to leakage/spillage of product.
Forms slippery surfaces with water.

6.2 Environmental precautions

Do not discharge into the subsoil/soil.
Do not discharge into the drains/surface waters/groundwater.
Prevent spread over a wide area (e.g. by containment or oil barriers).
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance with 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.
Open and handle container with care.
Keep away from open flames, hot surfaces and sources of ignition.
Do not eat or drink when working.
Wash hands before breaks and after work.
Use barrier skin cream.

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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 heat/overheating and from sun.

Recommended storage temperature: 5-40 °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	Boric acid
	CAS: 10043-35-3, EINECS/ELINCS: 233-139-2, EU-INDEX: 005-007-00-2, Reg-No.: 01-2119486683-25-XXXX
	Long-term exposure: 2 mg/m ³ , TWA (inhalable fraction, listed under Borate compounds, inorganic)
1 - 5	2-(2-Butoxyethoxy)ethanol
	CAS: 112-34-5, EINECS/ELINCS: 203-961-6, EU-INDEX: 603-096-00-8, Reg-No.: 01-2119475104-44-XXXX
	Long-term exposure: 10 ppm, 67,5 mg/m ³
	Short-term exposure (15-minute): 15 ppm, 101,2 mg/m ³

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, Reg-No.: 01-2119475104-44-XXXX
	Eight hours: 10 ppm, 67,5 mg/m ³
	Short-term (15-minute): 15 ppm, 101,2 mg/m ³

DNEL

Range [%]	Substance
5 - 10	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 ³ .
	general population, dermal, Long-term - systemic effects: 10 mg/kg.
	general population, inhalative, Long-term - systemic effects: 34 mg/m ³ .
	general population, inhalative, Acute - local effects: 50,6mg/m ³ .
< 5,5	Boric acid, CAS: 10043-35-3
	Industrial, dermal, Long-term - systemic effects: 392 mg/kg bw/d.
	Industrial, inhalative, Long-term - systemic effects: 8,3 mg/m ³ .
	Industrial, dermal, Long-term - systemic effects: 8,8 mg/m ³ .
	general population, oral, Long-term - systemic effects: 0,98 mg/kg bw/d.
	general population, oral, Acute - systemic effects: 0,98 mg/kg.
	general population, inhalative, Long-term - systemic effects: 4,15 mg/m ³ .
5 - 10	Alcohols, C16-18 and C18-unsatd., ethoxylated, CAS: 68920-66-1
	Industrial, inhalative, 294 mg/m ³ .
	Industrial, dermal, 2080 mg/kg.

PNEC

Range [%]	Substance
5 - 10	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), 1,75 mg/l.
	soil, 5,4 mg/kg.

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	sediment (freshwater), 1,8 mg/kg.
	sediment (seaater), 1,8 mg/kg.
	seawater, 1,35 mg/l.
	freshwater, 1,35 mg/l.
5 - 10	Alcohols, C16-18 and C18-unsatd., ethoxylated, CAS: 68920-66-1
	soil, 1 mg/kg.
	sediment (freshwater), 6,33 mg/kg.
	seawater, 0,002 mg/l.
	freshwater, 0,002 mg/l.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	safety glasses
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: Nitrile rubber, >480 min (EN 374). In splash contact Nitrile rubber, >60 min (EN 374).
Skin protection	Protective clothing.
Other	Do not breathe vapour/spray. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	Not required under normal conditions. Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, combination filter A-P1.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	yellow
Odor	like mineral oil
Odour threshold	No information available.
pH-value	9,0-9,2 (5 %; 20°C) (DIN 51369)
pH-value [1%]	No information available.
Boiling point [°C]	> 100
Flash point [°C]	> 160 (DIN EN ISO 2592)
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidizing properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/ml]	1,04 (DIN EN ISO 12185) (20 °C / 68,0 °F)
Bulk density [kg/m ³]	not applicable
Solubility in water	miscible
Partition coefficient [n-octanol/water]	No information available.
Viscosity	90 mm ² /s (20°C; DIN EN ISO 3104)
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	> -20
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

9.2 Other information

Ignition Temperature: > 240 °C

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

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

In the event of fire: See SECTION 5.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Range [%]	Substance
5 - 10	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, Rat: > 2000 mg/kg.
	LD50, oral, Rat: 2660 mg/kg.
	LC50, inhalative, Rat: > 2,03 mg/l.

Serious eye damage/irritation	Irritant
Skin corrosion/irritation	Irritant
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.
Specific target organ toxicity — single exposure	Based on available data, the classification criteria are not met.
Specific target organ toxicity — repeated exposure	Based on available data, the classification criteria are not met.
Mutagenicity	Based on available data, the classification criteria are not met.
Reproduction toxicity	This product contains one or more substance(s) of categorie Repr. 1B (CLP).
Carcinogenicity	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
General remarks	Frequent persistent contact with the skin can cause skin irritation. May cause irritation of eyes, mucous membranes and respiratory organs. 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.

SECTION 12: Ecological information

12.1 Toxicity

Range [%]	Substance
5 - 10	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), Oncorhynchus mykiss: 50-100 mg/l.
	EC50, (48h), Daphnia magna: 133 mg/l.
5 - 10	Alcohols, C16-18 and C18-unsatd., ethoxylated, CAS: 68920-66-1
	LC50, (96h), Brachidanio rerio: 108 mg/l (OECD 203).
	EC50, (72h), Scenedesmus subspicatus: > 100 mg/l.
	EC50, (48h), Daphnia magna: 51 mg/l (OECD 202).

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	Slightly eliminable from water. Biodegradable in part only

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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 product was classified on the basis of the calculation procedure of the preparation directive.

Do not discharge product unmonitored into the environment.

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*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150110*

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

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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 MARPOL 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	1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC; (EU) 2015/830
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2015).
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)	No information available.

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H412 Harmful to aquatic life with long lasting effects.
H410 Very toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
H317 May cause an allergic skin reaction.
H372 Causes damage to organs through prolonged or repeated exposure.
H331 Toxic if inhaled.
H311 Toxic in contact with skin.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H314 Causes severe skin burns and eye damage.
H360FD May damage fertility. May damage the unborn child.
H411 Toxic to aquatic life with long lasting effects.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

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16.2 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

16.3 Other information

Classification procedure

Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

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Modified position

SECTION 2 been added: Ausrufezeichen
SECTION 2 been added: Skin Irrit. 2
SECTION 2 been added: WARNING
SECTION 2 been added: H315 Causes skin irritation.
SECTION 2 been added: Eye Irrit. 2
SECTION 2 been added: H319 Causes serious eye irritation.
SECTION 2 been added: P280 Wear protective gloves / eye protection / face protection.
SECTION 2 been added: P273 Avoid release to the environment.
SECTION 2 been added: P332+P313 If skin irritation occurs: Get medical advice / attention.
SECTION 2 been added: P501 Dispose of contents / container to in accordance with local / regional / national / international regulation.
SECTION 2 deleted: Classification according to conversion table Annex VII 1272/2008/EC
SECTION 2 been added: P337+P313 If eye irritation persists: Get medical advice / attention.
SECTION 3 been added: Contains less than 3% w/w DMSO-extract (only for mineral oils)
SECTION 7 been added: Keep away from open flames, hot surfaces and sources of ignition.
SECTION 7 been added: Open and handle container with care.
SECTION 7 deleted: Recommended storage temperature: 10-25 °C (40 - 77 °F).
SECTION 7 been added: Recommended storage temperature: 5-40 °C.
SECTION 9 been added: No information available.
SECTION 9 deleted: not determined
SECTION 11 deleted: not determined
SECTION 11 been added: Irritant
SECTION 11 deleted: not determined
SECTION 11 been added: Based on available data, the classification criteria are not met.
SECTION 11 deleted: not determined
SECTION 11 been added: Irritant
SECTION 12 deleted: not determined
SECTION 12 been added: Biodegradable in part only
SECTION 12 been added: No information available.
SECTION 12 deleted: The product is not readily biodegradable.
SECTION 15 been added: No information available.
SECTION 15 been added: TRGS 400: Risk assessment
SECTION 15 been added: Please note BG leaflet BGI 595: Irritative substances/caustic substances when at work.
SECTION 15 been added: Storage class 10 (VCI)
SECTION 15 deleted: Storage class 10 - 13 (VCI)
SECTION 15 been added: 5.2.5.
SECTION 16 deleted: not determined
SECTION 16 been added: No information available.
SECTION 16 been added: Calculation method

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