

**Opticool 972 - Safety Data Sheet 1907/2006/EC - REACH (GB)**

Date printed 17.03.2015, Revision 17.03.2015

Version 01

Page 1 / 8

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

**1.1 Product identifier**

**Opticool 972**

**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](http://www.chesterton.com/GER/Pages/default.aspx)  
E-mail [customer.service@chesterton.com](mailto:customer.service@chesterton.com)

**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 telephone number**

**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]**

Skin Sens. 1: H317 May cause an allergic skin reaction.  
Eye Irrit. 2: H319 Causes serious eye irritation.

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

Sensitizing. - R 43: May cause sensitisation by skin contact.

**2.2 Label elements**

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

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

**Hazard pictograms**



**Signal word**

WARNING

**Contains:**

$\alpha,\alpha',\alpha''$ -trimethyl-1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol

**Hazard statements**

H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.

**Precautionary statements**

P280 Wear protective gloves / eye protection / face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 If eye irritation persists: Get medical advice / attention.  
P363 Wash contaminated clothing before reuse.  
P501 Dispose of contents / container to in accordance with local / regional / national / international regulation.

**2.3 Other hazards**

**Human health dangers**

May cause irritation of respiratory organs.

**Other hazards**

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

## Opticool 972 - Safety Data Sheet 1907/2006/EC - REACH (GB)

Date printed 17.03.2015, Revision 17.03.2015

Version 01

Page 2 / 8

### SECTION 3: Composition / Information on ingredients

**Product-type:**

The product is a mixture.

Range [%]	Substance
1 - 5	<p><math>\alpha,\alpha',\alpha''</math>-trimethyl-1,3,5-triazine-1,3,5-(2H,4H,6H)-triethanol</p> <p>CAS: 25254-50-6, EINECS/ELINCS: 246-764-0</p> <p>GHS/CLP: Acute Tox. 4: H302 H332 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - Skin Sens. 1: H317</p> <p>EEC: Xn, R 20/22-36/38-43-52</p>
1 - < 3	<p>Polyethylen glycol phenyl ether phosphate</p> <p>CAS: 39464-70-5, EINECS/ELINCS: Polymer</p> <p>EEC: Xi, R 41-38</p>

**Comment on component parts**

Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.  
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.  
Remove the victim into fresh air and keep him calm.  
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.  
Consult a doctor immediately.

**Ingestion**

Consult a doctor immediately.  
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**

No information available.

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

Treat symptomatically.

### SECTION 5: Fire-fighting measures

**5.1 Extinguishing media**

**Suitable extinguishing media**

Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.

**Extinguishing media that must not be used**

Full water jet

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

Nitrogen oxides (NO<sub>x</sub>).  
Carbon monoxide (CO).  
Carbon dioxide (CO<sub>2</sub>)  
Phosphorus oxides (PO<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 with the local regulations.

## Opticool 972 - Safety Data Sheet 1907/2006/EC - REACH (GB)

Date printed 17.03.2015, Revision 17.03.2015

Version 01

Page 3 / 8

### SECTION 6: Accidental release measures

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

Ensure adequate ventilation.  
High risk of slipping due to leakage/spillage of product.  
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

Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous earth).  
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

Use only in well-ventilated areas.  
Avoid spilling or spraying in enclosed areas.

Do not eat, drink, smoke or take drugs at work.  
Wash hands before breaks and after work.  
Use barrier skin cream.  
Take off contaminated clothing and wash before reuse.

#### 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.  
Do not store together with acids.  
Keep container in a well-ventilated place.  
Keep container tightly closed.  
Protect from heat/overheating and from sun.  
Keep away from frost.  
Recommended storage temperature: 5-40 °C

#### 7.3 Specific end use(s)

See product use, SECTION 1.2

### SECTION 8: Exposure controls / personal protection

#### 8.1 Control parameters

Ingredients with occupational  
exposure limits to be monitored (GB)

not applicable

## Opticool 972 - Safety Data Sheet 1907/2006/EC - REACH (GB)

Date printed 17.03.2015, Revision 17.03.2015

Version 01

Page 4 / 8

### 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation.
<b>Eye protection</b>	Tightly fitting goggles.
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. Nitrile rubber, >480 min (EN 374). Polychloroprene, >480 min (EN 374).
<b>Skin protection</b>	Protective clothing.
<b>Other</b>	Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. 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>	Not required under normal conditions. If ventilation insufficient, wear respiratory protection. Short term: filter apparatus, filter A.
<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>	light yellow
<b>Odor</b>	amine-like
<b>Odour threshold</b>	not determined
<b>pH-value</b>	9 (5%, 20°C)(DIN 51369)
<b>pH-value [1%]</b>	not determined
<b>Boiling point [°C]</b>	> 100 (1013 hPa)
<b>Flash point [°C]</b>	not determined
<b>Flammability (solid, gas) [°C]</b>	not applicable
<b>Lower explosion limit</b>	not determined
<b>Upper explosion limit</b>	not determined
<b>Oxidizing properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	not determined
<b>Density [g/ml]</b>	1,1 (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>	ca. 20 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>	< -15
<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.

## Opticool 972 - Safety Data Sheet 1907/2006/EC - REACH (GB)

Date printed 17.03.2015, Revision 17.03.2015

Version 01

Page 5 / 8

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

Exothermic reaction with:

Acids

### 10.4 Conditions to avoid

No information available.

### 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

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	

Toxicological data of complete product are not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

### 12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	Slightly eliminable from water.

### 12.3 Bioaccumulative potential

Bioaccumulation is potentially possible.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

not applicable

## Opticool 972 - Safety Data Sheet 1907/2006/EC - REACH (GB)

Date printed 17.03.2015, Revision 17.03.2015

Version 01

Page 6 / 8

### 12.6 Other adverse effects

Ecological data of complete product are not available.

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)

120199

#### 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\*

## 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 MARPOL 73/78 and the IBC Code

not applicable

## Opticool 972 - Safety Data Sheet 1907/2006/EC - REACH (GB)

Date printed 17.03.2015, Revision 17.03.2015

Version 01

Page 7 / 8

### SECTION 15: Regulatory information

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

<b>EEC-REGULATIONS</b>	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
<b>TRANSPORT-REGULATIONS</b>	DOT-Classification, ADR (2013); IMDG-Code (2013, 36. Amdt.); IATA-DGR (2013).
<b>NATIONAL REGULATIONS (GB):</b>	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- <b>Observe employment restrictions for people</b>	Observe employment restrictions for young people. Observe employment restrictions for mothers-to-be and nursing mothers.
- <b>VOC (1999/13/CE)</b>	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 20/22: Harmful by inhalation and if swallowed.  
R 36/38: Irritating to eyes and skin.  
R 43: May cause sensitisation by skin contact.  
R 52: Harmful to aquatic organisms.  
R 41: Risk of serious damage to eyes.  
R 38: Irritating to skin.

#### 16.2 Hazard statements (SECTION 3)

H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H315 Causes skin irritation.  
H302+H332 Harmful if swallowed or if inhaled.

#### 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

##### Classification procedure

Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)  
Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

##### Modified position

none

**Opticool 972 - Safety Data Sheet 1907/2006/EC - REACH (GB)**

Date printed 17.03.2015, Revision 17.03.2015

Version 01

Page 8 / 8

Copyright: Chemiebüro®