

# Safety Data Sheet

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



Trade name : Defoamer HT  
Revision date : 17.06.2024  
Print date : 17.06.2024

Version (Revision) : 4.0.5 (4.0.4)

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

### 1.1 Product identifier

Defoamer HT  
Unique Formula Identifier : KM00-Q0M0-G00R-FH66

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

#### Relevant identified uses

PC 0.64 - Additive

#### Sectors of use [SU]

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
Industrial uses

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

#### Supplier

Bio-Circle Surface Technology AG

Street : Aahusweg 16

Postal code/City : 6403 Küssnacht am Rigi

Telephone : 0041 41 878 1166

Telefax : 0041 41 878 1347

Information contact : [service@bio-circle.ch](mailto:service@bio-circle.ch)

### 1.4 Emergency telephone number

+41 (0)442515151  
Schweizerisches Toxikologisches Informationszentrum, 145

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Acute Tox. 4 ; H302 - Acute toxicity (oral) : Category 4 ; Harmful if swallowed.

### 2.2 Label elements

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

##### Hazard pictograms



Exclamation mark (GHS07)

##### Signal word

Warning

##### Hazard components for labelling

C12-C14 TERT-ALKYLAMINES, ETHOXYLATED, PROPOXYLATED ; CAS No. : 68603-58-7

##### Hazard statements

H302 Harmful if swallowed.

##### Precautionary statements

P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/.../ if you feel unwell.  
P330 Rinse mouth.  
P501 Dispose of contents/container to an appropriate recycling or disposal facility.

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## 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

C12-C14 TERT-ALKYLAMINES, ETHOXYLATED, PROPOXYLATED ; REACH No. : polymer ; CAS No. : 68603-58-7

Weight fraction :  $\geq 50 - < 100$  %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H302

#### Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

#### Following inhalation

Remove casualty to fresh air and keep warm and at rest.

#### In case of skin contact

P353 - Rinse skin with water [or shower].

#### After eye contact

P351 - Rinse cautiously with water for several minutes. P338 - Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.

#### Following ingestion

Rinse mouth thoroughly with water. Let 1 glass of 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

No information available.

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

None

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Water Water mist Foam Extinguishing powder Carbon dioxide (CO<sub>2</sub>) Sand Nitrogen Extinguishing blanket

#### Unsuitable extinguishing media

Full water jet

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

#### Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>) Carbon monoxide Carbon dioxide (CO<sub>2</sub>)  
After drying the residue is: Combustible

### 5.3 Advice for firefighters

P380 - Evacuate area.

#### Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

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## 5.4 Additional information

After drying the residue is: Combustible . The product itself does not burn. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

## SECTION 6: Accidental release measures

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

Use personal protection equipment. Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Special danger of slipping by leaking/spilling product.

### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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

Clear spills immediately. Wipe up with absorbent material (eg. cloth, fleece). Wash with plenty of water. Treat the recovered material as prescribed in the section on waste disposal.

### 6.4 Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothes. Wear personal protection equipment (refer to section 8). P264 - Wash hands thoroughly after handling. Keep container tightly closed.

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

Keep/Store only in original container. Protect against : Frost .

### 7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

None

### 8.2 Exposure controls

#### Personal protection equipment

##### Eye/face protection



Wear suitable safety goggles in case of splash.

##### Suitable eye protection

EN 166.

##### Skin protection

##### Hand protection



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**Suitable gloves type** : EN 374.  
**Suitable material** : NBR (Nitrile rubber)  
**Breakthrough time** : 480 min.  
**Thickness of the glove material** : 0.4 mm

**Remark** : The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

## General information

Do not put any product-impregnated cleaning rags into your trouser pockets. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. P362+P364 - Take off contaminated clothing and wash it before reuse. P264 - Wash hands thoroughly after handling.

## 8.3 Additional information

No tests have been performed. Selection made for preparations according to the best available knowledge and information on ingredients. In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use.

## 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 characteristics

<b>Solidifying point</b> :	( 1013 hPa )	approx.	-9 °C	
<b>Initial boiling point and boiling range</b> :	( 1013 hPa )	approx.	112 °C	
<b>Decomposition temperature</b> :			No data available	
<b>Flash point</b> :			not relevant	DIN EN ISO 13736
<b>Auto-ignition temperature</b> :			No data available	
<b>Flammability</b> :			non-flammable	
<b>Lower explosion limit</b> :			not relevant	
<b>Upper explosion limit</b> :			not relevant	
<b>Vapour pressure</b> :	( 20 °C )		20,3 hPa	Calculated
<b>Density</b> :	( 20 °C )	approx.	1,04 g/cm <sup>3</sup>	
<b>Water solubility</b> :	( 20 °C )		completely miscible	
<b>pH</b> :	( 20 °C )	approx.	10,6	
<b>log P O/W</b> :			No data available	
<b>Cinematic viscosity</b> :	( 20 °C )	>=	534 mm <sup>2</sup> /s	
<b>Cinematic viscosity</b> :	( 40 °C )	<	534 mm <sup>2</sup> /s	
<b>Odour threshold</b> :			No data available	
<b>Relative vapour density</b> :	( 20 °C )	approx.	0,6 (air = 1)	
<b>Maximum VOC content (EC)</b> :			0 Weight-%	
<b>Maximum VOC content (Switzerland)</b> :			0 Weight-%	
<b>Taxable VOC content (Switzerland)</b> :			0 Weight-%	

### 9.2 Other information

No further relevant information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

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This material is considered to be non-reactive under normal use conditions.

## 10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

## 10.3 Possibility of hazardous reactions

No known hazardous reactions.

## 10.4 Conditions to avoid

prolonged exposure to extreme heat

## 10.5 Incompatible materials

Alkali (lye), concentrated. Acid, concentrated. Oxidising agent, strong.

## 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 hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

##### Acute oral toxicity

Parameter : LD50 ( C12-C14 TERT-ALKYLAMINES, ETHOXYLATED, PROPOXYLATED ; CAS No. : 68603-58-7 )  
Exposure route : Oral  
Species : Rat  
Effective dose : > 1270 mg/kg

##### Acute dermal toxicity

Parameter : LD50 ( C12-C14 TERT-ALKYLAMINES, ETHOXYLATED, PROPOXYLATED ; CAS No. : 68603-58-7 )  
Exposure route : Dermal  
Species : Rabbit  
Effective dose : > 16000 mg/kg

#### Corrosion

##### Skin corrosion/irritation

In rare cases the product can cause temporary erythema of the skin.

##### Serious eye damage/eye irritation

slightly irritant but not relevant for classification.

#### Respiratory or skin sensitisation

##### Skin sensitisation

No further relevant information available.

##### Sensitisation to the respiratory tract

No further relevant information available.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

##### Carcinogenicity

No further relevant information available.

##### Germ cell mutagenicity

No further relevant information available.

##### Reproductive toxicity

No further relevant information available.

#### STOT-single exposure

No further relevant information available.

#### STOT-repeated exposure

No further relevant information available.

#### Aspiration hazard

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No further relevant information available.

## 11.2 Information on other hazards

### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

### Toxicokinetics, metabolism and distribution

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

### Other adverse effects

None

### Additional information

Preparation not tested. The statement is derived from the properties of the single components. Preparation not tested. The statement is derived from the properties of the single components.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity

##### Acute (short-term) fish toxicity

Parameter : LC50 ( C12-C14 TERT-ALKYLAMINES, ETHOXYLATED, PROPOXYLATED ; CAS No. : 68603-58-7 )  
Species : Pimephales promelas (fathead minnow)  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 412 mg/l  
Exposure time : 96 h  
Method : OECD 203

##### Acute (short-term) toxicity to crustacea

Parameter : EC50 ( C12-C14 TERT-ALKYLAMINES, ETHOXYLATED, PROPOXYLATED ; CAS No. : 68603-58-7 )  
Species : Daphnia magna (Big water flea)  
Evaluation parameter : Acute (short-term) daphnia toxicity  
Effective dose : 660 - 1056 mg/l  
Exposure time : 48 h  
Method : OECD 202

##### Toxicity to microorganisms

Parameter : EC50 ( C12-C14 TERT-ALKYLAMINES, ETHOXYLATED, PROPOXYLATED ; CAS No. : 68603-58-7 )  
Species : Bacteria toxicity  
Effective dose : > 5000 mg/l  
Exposure time : 16 h

### 12.2 Persistence and degradability

#### Biodegradation

Parameter : Biodegradation ( C12-C14 TERT-ALKYLAMINES, ETHOXYLATED, PROPOXYLATED ; CAS No. : 68603-58-7 )  
Inoculum : Biodegradation  
Degradation rate : < 60 %  
Test duration : 28 D  
Evaluation : Not readily biodegradable (according to OECD criteria)  
Method : OECD 301F

### 12.3 Bioaccumulative potential

No indication of bioaccumulation potential.

### 12.4 Mobility in soil

No information available.

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## 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 Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

## 12.7 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Ordinance on the avoidance and disposal of waste (ADWO) SR 814.600.

##### Before intended use

##### Waste code according to the lists for the movement of waste

07 06 01S (Aqueous washing liquids and mother liquors)

20 01 29S (Detergents containing hazardous substances)

##### Other disposal recommendations

Dispose of waste according to applicable legislation. Dispose of contents/ container to an approved waste disposal plant. Contaminated packages must be completely emptied and can be re-used following proper cleaning (Water (with cleaning agent)). Handle contaminated packages in the same way as the substance itself.

### 13.2 Additional information

The allocation of waste identity numbers/waste descriptions must be carried out according to the VVEA, specific to the industry and process.

## SECTION 14: Transport information

### 14.1 UN number

No dangerous good in sense of these transport regulations.

### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

### 14.4 Packing group

No dangerous good in sense of these transport regulations.

### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

### 14.6 Special precautions for user

None

### 14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

## SECTION 15: Regulatory information

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

#### EU legislation

##### Authorisations and/or restrictions on use

##### Restrictions on use

Use restriction according to REACH annex XVII, no. : 3

##### National regulations

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## Other regulations, restrictions and prohibition regulations

### Switzerland

Chemicals Ordinance, ChemO (SR 813.11)  
Chemical Risk Reduction Ordinance, ORRChem (SR 814.81)

## 15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1 Indication of changes

09. Information on basic physical and chemical properties

### 16.2 Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europäisches Übereinkommen über die Beförderung gefährlicher Güter auf der Straße)  
AOX: adsorbierbare organisch gebundene Halogene  
AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen  
CAS: Chemical Abstracts Service (Unterabteilung der American Chemical Society)  
CLP: Verordnung (EG) Nr. 1272/2008 über die Einstufung, Kennzeichnung und Verpackung von Stoffen und Gemischen (Classification Labelling and Packaging)  
EAK / AVV: europäischer Abfallartenkatalog / Abfallverzeichnis-Verordnung  
ECHA: Europäische Chemikalienagentur (European Chemicals Agency)  
EINECS: : Altstoffverzeichnis (European Inventory of Existing Commercial Chemical Substances)  
GHS: Global harmonisiertes System zur Einstufung und Kennzeichnung von Chemikalien (Globally Harmonized System of Classification and Labelling of Chemicals)  
IATA: Internationale Luftverkehrs-Vereinigung (International Air Transport Association)  
ICAO: Internationale Zivilluftfahrtorganisation (International Civil Aviation Organization)  
IMDG: Gefahrgutkennzeichnung für gefährliche Güter im Seeschiffverkehr (International Maritime Code for Dangerous Goods)  
RID: Regelung zur internationalen Beförderung gefährlicher Güter im Schienenverkehr (Règlement concernant le transport international ferroviaire de marchandises dangereuses)  
TRGS: Technische Regel für den Umgang mit Gefahrstoffen  
VbF: Verordnung über brennbare Flüssigkeiten  
VOC: flüchtige organische Verbindung (volatile organic compound)  
VVEA: Verordnung über die Vermeidung und die Entsorgung von Abfällen  
VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe  
WGK: Wassergefährdungsklasse

### 16.3 Key literature references and sources for data

DGUV: GESTIS-Stoffdatenbank  
ECHA: Classification And Labelling Inventory  
ECHA: Pre-registered Substances  
ECHA: Registered Substances  
EC: Safety Data Sheet of Suppliers  
ESIS: European Chemical Substances Information System  
GDL: Gefahrstoffdatenbank der Länder  
UBA Rigoletto: Wassergefährdende Stoffe  
Regulation (EC) No. 1907/2006 of the European Parliament and of the Council  
[-> COMMISSION REGULATION (EU) 2020/878 of 18 June 2020  
Regulation (EC) No. 1272/2008 of the European Parliament and of the Council

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].  
Evaluation :  
Acute Tox. 4 : Calculation method.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

H302 Harmful if swallowed.

### 16.6 Training advice



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None

**16.7 Additional information**

None

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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.

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