

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)



Trade name : Hair Remover Drain-free  
Revision date : 17.03.2022  
Print date : 22.06.2022

Version (Revision) : 7.0.3 (7.0.2)

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

**1.1 Product identifier**

Hair Remover Drain-free

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

**Relevant identified uses**

PC 35 - Washing and cleaning products

**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 (manufacturer/importer/only representative/downstream user/distributor)**

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

**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]**

Met. Corr. 1 ; H290 - Corrosive to metals : Category 1 ; May be corrosive to metals.

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

Skin Corr. 1A ; H314 - Skin corrosion/irritation : Category 1A ; Causes severe skin burns and eye damage.

Eye Dam. 1 ; H318 - Serious eye damage/eye irritation : Category 1 ; Causes serious eye damage.

**2.2 Label elements**

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

**Hazard pictograms**



Corrosion (GHS05) · Exclamation mark (GHS07)

**Signal word**

Danger

**Hazard components for labelling**

POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3

**Hazard statements**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H302 Harmful if swallowed.

**Precautionary statements**

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P310 Immediately call a POISON CENTER/doctor/....  
P501 Dispose of contents/container to an appropriate recycling or disposal facility.

## 2.3 Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

POTASSIUM HYDROXIDE ; REACH No. : 01-2119487136-33-XXXX ; EC No. : 215-181-3; CAS No. : 1310-58-3

Weight fraction :  $\geq 25 - < 50 \%$

Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1A ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Corr. 1A ; H314:  $C \geq 5 \%$  • Eye Dam. 1 ; H318:  $C \geq 2 \%$  • Skin Corr. 1B ; H314:  $C \geq 2 \%$  • Skin Corr. 1C ; H314:  $C \geq 2 \%$  • Eye Irrit. 2 ; H319:  $C \geq 0,5 \%$  • Skin Irrit. 2 ; H315:  $C \geq 0,5 \%$

#### Additional information

Full text of H- and EUH-phrases: 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

After contact with skin, wash immediately with plenty of water and soap. Rub greasy ointment into the skin.

#### After eye contact

Protect uninjured eye. 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.

#### After 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

Causes severe skin burns and eye damage. H302 - Harmful if swallowed.

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

#### Unsuitable extinguishing media

Full water jet

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## 5.2 Special hazards arising from the substance or mixture

### Hazardous combustion products

In case of fire may be liberated: Carbon monoxide , Carbon dioxide (CO<sub>2</sub>)

## 5.3 Advice for firefighters

The product itself does not burn. Adapt extinguishing measures to suit the environment. Wear a self-contained breathing apparatus and chemical protective clothing.

## 5.4 Additional information

Fire fighting water forms corrosive alkaline solutions - slip hazard! Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Move undamaged containers from immediate hazard area if it can be done safely.

## SECTION 6: Accidental release measures

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

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

Keep container tightly closed.

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

Do not store together with : Acid . 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

#### Occupational exposure limit values

POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3

Limit value type (country of origin) : MAK ( CH )

Parameter : E: inhalable fraction

Limit value : 2 mg/m<sup>3</sup>

Version : 09.03.2021

#### DNEL-/PNEC-values

##### DNEL/DMEL

POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3

Limit value type : DNEL worker (local)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 1 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic)

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Exposure route : Inhalation  
Exposure frequency : Long-term  
Limit value : 1 mg/m<sup>3</sup>

## 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



**Suitable gloves type** : EN 374.

**Suitable material** : NBR (Nitrile rubber)

**Breakthrough time (maximum wearing 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.

#### Respiratory protection



Respiratory protection necessary at: aerosol or mist formation.

Usually no personal respirative protection necessary.

##### **Suitable respiratory protection apparatus**

Combination filtering device (EN 14387)

Filter type: P

##### **Remark**

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

#### 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

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**Physical state** : Liquid

**Colour** : red

## Odour

odourless

## Safety characteristics

<b>Initial boiling point and boiling range</b> ( 1013 hPa )	>	100	°C
<b>Flash point</b> :		not relevant	
<b>Auto-ignition temperature</b> :		not relevant	
<b>Lower explosion limit</b> :		not relevant	
<b>Upper explosion limit</b> :		not relevant	
<b>Density</b> :	( 20 °C ) approx.	1,45	g/cm <sup>3</sup>
<b>pH</b> :		14	
<b>Flow time</b> :	( 20 °C )	not relevant	DIN-cup 4 mm
<b>Maximum VOC content (EC)</b> :		0	Wt %
<b>Maximum VOC content (Switzerland)</b> :		0	Wt %

## 9.2 Other information

No further relevant information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Exothermic reaction with: Acid  
May be corrosive to metals.

### 10.2 Chemical stability

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

### 10.3 Possibility of hazardous reactions

May cause strong formation of hydrogen by contact with amphoteric metals (e.g. alumina, lead, zinc) - danger of explosion.

### 10.4 Conditions to avoid

50 - Do not mix with acids.

### 10.5 Incompatible materials

Metal, base

### 10.6 Hazardous decomposition products

Hydrogen  
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 :	ATEmix calculated
Exposure route :	Oral
Effective dose :	750 - 1450 mg/kg
Parameter :	LD50 ( POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3 )
Exposure route :	Oral
Species :	Rat
Effective dose :	365 mg/kg
Method :	OECD 425

#### Corrosion

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**Skin corrosion/irritation**

Causes severe burns.

**Serious eye damage/eye irritation**

Causes serious eye damage.

**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**

No further relevant information available.

**11.2 Information on other hazards**

**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.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**

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

Parameter : LC50 ( POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3 )  
Species : Fish  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 80 mg/l  
Exposure time : 96 h

**12.2 Persistence and degradability**

According to the recipe, contains no AOX. The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

**12.3 Bioaccumulative potential**

No indication of bioaccumulation potential.

**12.4 Mobility in soil**

No information available.

**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**

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No information available.

## 12.7 Other adverse effects

No information available.

## 12.8 Additional ecotoxicological information

After neutralisation, reduction in toxic effects is observed.

## SECTION 13: Disposal considerations

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. List of proposed waste codes/waste designations in accordance with EWC

### 13.1 Waste treatment methods

#### Directive 2008/98/EC (Waste Framework Directive)

##### Before intended use

##### Waste codes/waste designations according to EWC/AVV

20 01 29\* - detergents containing dangerous substances.

##### Other disposal recommendations

Dispose of waste according to applicable legislation. Dispose of contents/ container to an approved waste disposal plant.

## SECTION 14: Transport information

### 14.1 UN number

UN 1760

### 14.2 UN proper shipping name

#### Land transport (ADR/RID)

CORROSIVE LIQUID, N.O.S. ( POTASSIUM HYDROXIDE )

#### Sea transport (IMDG)

CORROSIVE LIQUID, N.O.S. ( POTASSIUM HYDROXIDE )

#### Air transport (ICAO-TI / IATA-DGR)

CORROSIVE LIQUID, N.O.S. ( POTASSIUM HYDROXIDE )

### 14.3 Transport hazard class(es)

#### Land transport (ADR/RID)

Class(es) : 8  
Classification code : C9  
Hazard identification number (Kemler No.) : 80  
Tunnel restriction code : E  
Special provisions : LQ 11 · E 2  
Hazard label(s) :



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#### Sea transport (IMDG)

Class(es) : 8  
EmS-No. : F-A / S-B  
Special provisions : LQ 11 · E 2 · IMDG-Code segregation group 18 - Alkalies  
Hazard label(s) :



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#### Air transport (ICAO-TI / IATA-DGR)

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Class(es) : 8  
Special provisions : E 0  
Hazard label(s) :



## 14.4 Packing group

II

## 14.5 Environmental hazards

Land transport (ADR/RID) : No

Sea transport (IMDG) : No

Air transport (ICAO-TI / IATA-DGR) : No

## 14.6 Special precautions for user

None

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

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

##### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

##### Other regulations (EU)

##### Labelling for contents according to regulation (EC) No. 648/2004

< 5 % non-ionic surfactants

##### National regulations

##### Other regulations, restrictions and prohibition regulations

##### Switzerland

Chemicals Ordinance, ChemO (SR 813.11)

Chemical Risk Reduction Ordinance, ORRChem (SR 814.81) Swiss Youth Protection Regulation (ArGV 5; SR 822.115): Young persons up to the age of 18 are not allowed to get in contact with or be exposed to this preparation in the course of their work unless the Federal Office for Professional Education and Technology (BBT) or the State Secretariat for Economic Affairs (SECO) has granted an exception.

### 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

11. Toxicological information · 08. Occupational exposure limit values

### 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



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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)  
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  
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]

No information available.

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

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

### 16.6 Training advice

None

### 16.7 Additional information

None

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.