

# Safety Data Sheet

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



Trade name : Smoke Resin Remover foamless  
Revision date : 30.07.2020  
Print date : 08.12.2020

Version (Revision) : 5.0.0 (4.0.0)

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

### 1.1 Product identifier

Smoke Resin Remover foamless

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

#### Relevant identified uses

PC 35 - Washing and cleaning products

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

#### Supplier (manufacturer/importer/only representative/downstream user/distributor)

Bio-Circle Surface Technology GmbH

**Street :** Berensweg 200

**Postal code/city :** 33334 Gütersloh

**Telephone :** +49 5241 9443 0

**Telefax :** +49 5241 9443 44

**Information contact :** labor@bio-circle.de

### 1.4 Emergency telephone number

+49 5241 9443 51 during normal office hours

## 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.

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)

##### 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.

##### Precautionary statements

P234 Keep only in original packaging.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P310 Immediately call a POISON CENTER/doctor/....

P405 Store locked up.

P406 Store in a corrosion resistant/... container with a resistant inner liner.

### 2.3 Other hazards

None

# Safety Data Sheet

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## 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 :  $\geq 10 - < 25$  %

Classification 1272/2008 [CLP] : Met. Corr. 1 ; H290 Skin Corr. 1A ; H314 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302

Specific Conc. Limits : 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

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. Protect uninjured eye.

#### After ingestion

Do NOT induce vomiting. 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.

### 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

### 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

In case of fire: Wear self-contained breathing apparatus.

### 5.4 Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings. Fire fighting water forms corrosive alkaline solutions - slip hazard! Collect contaminated fire extinguishing water separately. This must not be

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discharged into drains. 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

Do not breathe gas/fumes/vapour/spray. Keep locked up. Keep container tightly closed.

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

P406 - Store in a corrosion resistant/... container with a resistant inner liner. Keep/Store only in original container.  
Protect against Frost

#### Hints on joint storage

Storage class (TRGS 510) : 8B

### 7.3 Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### DNEL-/PNEC-values

##### DNEL/DMEL

Limit value type :	DNEL worker (local) ( POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3 )
Exposure route :	Inhalation
Exposure frequency :	Long-term
Limit value :	1 mg/m <sup>3</sup>
Limit value type :	DNEL worker (systemic) ( POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3 )
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.

# Safety Data Sheet

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Version (Revision) : 5.0.0 (4.0.0)

## Skin protection

### Hand protection



Wear protective gloves in case of longer lasting skin contact.

**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: exceeding exposure limit values

### Suitable respiratory protection apparatus

Combination filtering device (EN 14387)

Type : P2

### 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. P363 - Wash contaminated clothing before reuse. P280 - Wear protective gloves/protective clothing and eye/face protection. P264 - Wash hands thoroughly after handling. 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** : colourless

#### Odour

characteristic

#### Safety characteristics

**Solidifying point** : ( 1013 hPa ) approx. -2 °C

**Initial boiling point and boiling range** ( 1013 hPa ) approx. 95 °C

**Flash point** : not applicable

**Auto-ignition temperature** : not applicable

**Lower explosion limit** : No data available

**Upper explosion limit** : No data available

# Safety Data Sheet

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Version (Revision) : 5.0.0 (4.0.0)

Density : ( 20 °C ) approx. 1,15 g/cm<sup>3</sup>  
pH : 14  
Maximum VOC content (EC) : 0 Wt %  
Maximum VOC content (Switzerland) : 0 Wt %

## 9.2 Other information

No further relevant information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Exothermic reaction with: Acid

### 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

Do not wash off with acidic cleaning agents.

### 10.5 Incompatible materials

Metal, base Non-ferrous metal. Aluminium Zinc Lead Brass

### 10.6 Hazardous decomposition products

Hydrogen  
Decomposition products in case of fire: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Acute oral toxicity

Parameter : ATEmix calculated  
Exposure route : Oral  
Effective dose : > 2000 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

##### Skin corrosion/irritation

No further relevant information available.

##### Serious eye damage/eye irritation

No further relevant information available.

#### 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.

# Safety Data Sheet

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



Trade name : Smoke Resin Remover foamless  
Revision date : 30.07.2020  
Print date : 08.12.2020

Version (Revision) : 5.0.0 (4.0.0)

#### 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 Toxicokinetics, metabolism and distribution

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

#### 11.3 Other adverse effects

Has degreasing effect on the skin. Causes severe skin burns and eye damage.

#### 11.4 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

#### Biodegradation

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

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

### 12.6 Other adverse effects

No information available.

### 12.7 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

#### Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

**Safety Data Sheet**  
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07 06 01\* - aqueous washing liquids and mother liquors  
20 01 29\* - detergents containing dangerous substances.

**Waste code packaging**

15 01 02 - plastic packaging.

**Waste treatment options**

**Appropriate disposal / Package**

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Handle contaminated packages in the same way as the substance itself.

**Other disposal recommendations**

P501 - Dispose of contents/container to industrial incineration plant.

**13.2 Additional information**

These codes are assigned based upon the most common uses for this material and may not reflect contaminants resulting from actual use.

**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 SOLUTION )

**Sea transport (IMDG)**

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

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

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

**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) :



8

**Sea transport (IMDG)**

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



8

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

Class(es) : 8  
Special provisions : E 2

# Safety Data Sheet

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



Trade name : Smoke Resin Remover foamless  
Revision date : 30.07.2020  
Print date : 08.12.2020

Version (Revision) : 5.0.0 (4.0.0)

Hazard label(s) :



8

#### 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 % anionic surfactants

##### National regulations

##### Water hazard class (WGK)

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

#### 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

03. Hazardous ingredients · 08. DNEL/DMEL · 15. Restrictions on use · 15. Water hazard class (WGK)

#### 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)



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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.