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



Trade name: Smoke Resin Remover DB

**Revision date**: 07.08.2024 **Version (Revision)**: 5.2.0 (5.1.1)

**Print date:** 07.08.2024

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

### 1.1 Product identifier

Smoke Resin Remover DB

Unique Formula Identifier: XM30-E0RW-7002-MFKF

## 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

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

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

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/.../ if you feel unwell.

P330 Rinse mouth.

P331 Do NOT induce vomiting.

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]

P390 Absorb spillage to prevent material damage.

### 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 Specific Conc. Limits : Skin Corr. 1A; H314:  $C \ge 5$  % • Eye Dam. 1; H318:  $C \ge 2$  % • Skin Corr. 1B; H314:  $C \ge 3$  % • Skin Corr.

C  $\geq$  2 % • Skin Corr. 1C ; H314: C  $\geq$  2 % • Eye Irrit. 2 ; H319: C  $\geq$  0,5 % • Skin Irrit.

2; H315: C ≥ 0,5 %

### 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 respiratory tract irritation, consult a physician.

## 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.

## 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

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

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Water Foam Extinguishing powder Carbon dioxide (CO2) 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 (CO2)

## 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 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. Use personal protection equipment.

## 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

P234 - Keep only in original packaging. P406 - Store in a corrosion resistant/... container with a resistant inner liner. P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P405 - Store locked up. 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

# Occupational exposure limit values

POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3
Limit value type (country of origin) : MAK ( CH )
Parameter : E: inhalable fraction

 $\begin{array}{ll} \mbox{Limit value:} & 2\mbox{ mg/m}^3 \\ \mbox{Version:} & 09.03.2021 \end{array}$ 

# **DNEL-/PNEC-values**

## **DNEL/DMEL**

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

Limit value type : DNEL Consumer (local)

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Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 1 mg/m³

Limit value type : DNEL worker (local)

Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 1 mg/m³

### 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: 480 min.

Thickness of the glove material :  $0.4\ \text{mm}$ 

**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

Type: P2

### Remark

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

### **General information**

P280 - Wear protective gloves/protective clothing and eye/face protection. 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**

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# 9.1 Information on basic physical and chemical properties

### **Appearance**

Physical state : Liquid Colour : colourless

# Odour

odourless

### Safety characteristics

Solidifying point : (1013 hPa) < -20 °C Initial boiling point and boiling range (1013 hPa) approx. 95 °C

Flash point: not relevant DIN EN ISO 13736

Auto-ignition temperature:

Flammability:

Lower explosion limit:

upper explosion limit:

not relevant
not relevant
not relevant
vanur pressure:

(20 °C)

Vapur pressure : (20 °C) < 24 hPa Calculated

**Relative vapour density :**  $(20 \, ^{\circ}\text{C})$  not determined

Maximum VOC content (EC):0Weight-%Maximum VOC content (Switzerland):0Weight-%Taxable VOC content (Switzerland):0Weight-%

Corrosive to metals : May be corrosive to metals.

# 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 product 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. aluminia, lead, zinc) - danger of explosion.

## 10.4 Conditions to avoid

Do not wash off with acidic cleaning agents.

## 10.5 Incompatible materials

Aluminium Zinc Copper alloys Metal, base Non-ferrous metal.

## 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

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H302 - Harmful if swallowed.

Acute oral toxicity

Parameter : ATEmix Exposure route : Oral

Effective dose: 1000 - 1500 mg/kg

Parameter: LD50 ( POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3 )

 Exposure route :
 Oral

 Species :
 Rat

 Effective dose :
 365 mg/kg

 Method :
 OECD 425

Acute dermal toxicity

Parameter: ATEmix
Exposure route: Dermal
Effective dose: > 2000 mg/kg

Acute inhalation toxicity

Parameter: ATEmix
Exposure route: Inhalation
Effective dose: > 20 mg/l

Corrosion

Skin corrosion/irritation

Parameter: Skin corrosion/irritation ( POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3 )

Result: Causes severe burns

Method: OECD 431

Causes severe burns.

Serious eye damage/eye irritation

Parameter: Serious eye damage/eye irritation ( POTASSIUM HYDROXIDE ; CAS No. : 1310-58-3 )

Result : Causes serious eye damage

Method: OECD 405

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

## **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

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

## Other adverse effects

Has degreasing effect on the skin.

## **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

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

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.

# 12.8 Additional ecotoxicological information

After neutralisation, reduction in toxic effects is observed.

# **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.

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# **SECTION 14: Transport information**

### 14.1 UN number

UN 1814

## 14.2 UN proper shipping name

Land transport (ADR/RID)

POTASSIUM HYDROXIDE SOLUTION

Sea transport (IMDG)

POTASSIUM HYDROXIDE SOLUTION

Air transport (ICAO-TI / IATA-DGR)

POTASSIUM HYDROXIDE SOLUTION

# 14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es): 8
Classification code: C5

Hazard identification number (Kemler

No.):

Tunnel restriction code : E Special Provisions :  $LQ 1 | \cdot E 2$ 

Hazard label(s):



80

Sea transport (IMDG)

**Class(es)**: 8 **EmS-No**.: F-A / S-B

**Special Provisions :** LQ 1 I · E 2 · IMDG-Code segregation group 18 - Alkalis

Hazard label(s):



Air transport (ICAO-TI / IATA-DGR)

Class(es): 8
Special Provisions: E

Hazard label(s):



# 14.4 Packing group

П

## 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 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

# **SECTION 15: Regulatory information**

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# 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, 75

### Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers

Observe restrictions to employment for juveniles 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

Swiss Maternity Protection Ordinance (SR 822.111.52): Pregnant women and nursing mothers are only allowed to get in contact with or be exposed to this preparation in the course of their work when it is established on the basis of a risk assessment by a specialist, that in context with the activities and the protection measures applied, exposure does no harm to mother and child. 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

01. Unique Formula Identifier · 14. UN number · 14. UN proper shipping name

# 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 Classifiaction 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

VhC: Vererdnung über brennhere Flüssigkeiten

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

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## 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

# 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:

Met. Corr. 1: UN Test, Part III of sub-section 37.4

Acute Tox. 4 : Calculation method. Skin Corr. 1A : Calculation method. Eye Dam. 1 : Calculation method.

## 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.

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