

Safety Data Sheet

according to Regulation (EC) Nr. 1907/2006 (REACH)

Print date: 05.04.2019

Revision number 2.0

Version date: 05.04.2019

1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

· **Product name:** Hornstick

See: 3.1

· **Product code:** 1713

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

· **Identified uses of the substance or mixture**

Dehorning

1.3 Details of the supplier of the safety data sheet

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1.4 Emergency telephone number:

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2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) Nr. 1272/2008

Corrosive to metals: Met. Corr. 1 (H290)

Acute toxicity (oral): Acute Tox. 4 (H302)

Skin corrosion/irritation: Skin Corr. 1A (H314)

2.2 Label elements

Label elements according to Regulation (EC) Nr. 1272/2008 (CLP/GHS)

Hazard pictograms



GHS05 - Corrosion



GHS07 - Exclamation mark



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Signal word

Danger

Hazard statements

H290 - May be corrosive to metals.

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

Precautionary statements

P234 - Keep only in original container.

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

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

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER/doctor.

2.3 Other hazards

· None

3 Composition/information on ingredients

3.1 Substance

CAS-No.:	1310-58-3	Potassium hydroxide (Caustic potash)	> 90 %
EC-No.:	215-181-3		
Index-No.:	019-002-00-8		
Reg.nr.:	01-2119487136-33		

4 First aid measures

4.1 Description of first aid measures

· General information:

Consult a physician. Show this safety data sheet to the doctor in attendance.

· Inhalation:

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

· Skin contact:

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

· Eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

· Ingestion:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.



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4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Potassium oxides

5.3 Advice for firefighters

Special protective equipment: Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Gives off hydrogen by reaction with metals. The product itself does not burn.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Consult the safety measures listed under headings 7 and 8.

6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up:

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal (see chapter 13).

6.4 Reference to other sections

Information regarding safe handling see chapter 7.
Information regarding personal protection see chapter 8.
Information regarding disposal see chapter 13.

7 Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Absorbs carbon dioxide (CO₂) from air. Air sensitive. Strongly hygroscopic.

7.3 Specific end use(s)

Keep out of reach of children.



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8 Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits	Country	Exposure limit	Exposure		Remarks
			ml/m ³	mg/m ³	
CAS: 1310-58-3	EU	OEL	-	-	
Potassium hydroxide (Caustic potash)	D, TRGS 900	AGW	-	-	
	UK, WEL	TWA	-	2	15 min
	F, INRS	VLE	-	2	15 min

8.2 Exposure controls / Personal protection

Appropriate engineering controls:

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Eye / face protection

Face shield and safety glasses.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Provide eyewash stations in facilities where the product is handled constantly.

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

Recommended properties :

- Impervious gloves in accordance with standard EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Skin protection (other than of the hands)

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal hazards

No data available.

Exposure controls regarding environmental protection

No data available.



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9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- General Information
- Appearance:
 - Form: solid
 - Colour: white
- Odour: no data available
- Smell Threshold: no data available
- pH: 13.5
- Change of state
 - Melting point/range: 361 °C
 - Boiling point/range: 1320 °C
- Flash point: no data available
- Flammability (solid, gas): no data available
- Ignition temperature: no data available
- Thermal decomposition: no data available
- Autoinflammability: no data available
- Explosion hazard: no data available
- Explosion limits:
 - Lower: no data available
 - Upper: no data available
- Vapour pressure: 1 hPa at 714 °C
- Density: 2.044 g/cm³
- Bulk density 1.300 g/cm³
- Vapour density no data available
- Evaporation rate no data available
- Solubility / miscibility
 - Water: soluble
- Partition coefficient (n-Octanol/Water): no data available
- Viscosity: no data available
- Oxidising properties no data available

9.2 Other information

No data available.

10 Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid:

Do not heat above melting point.



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10.5 Incompatible materials:

Nitro compounds, Organic materials, Magnesium, Copper, Water. Reacts violently with: Metals, Light metals. Contact with aluminum, tin and zinc liberates hydrogen gas. Contact with nitromethane and other similar nitro compounds causes formation of shock-sensitive salts. Vigorous reaction with: Alkali metals, Halogens, Azides, Anhydrides.

10.6 Hazardous decomposition products:

Other decomposition products - no data available.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Oral LD-50 273 mg/kg (Rat)

Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Ingestion: Toxic if swallowed.

Skin corrosion/irritation:

Skin - rabbit - Severe skin irritation - 24 h

May be harmful if absorbed through skin. Causes skin burns.

Eye damage/irritation:

Eyes - rabbit - Eye irritation - 24 h

Causes eye burns.

Sensitisation, respiratory or skin:

no data available

Carcinogenicity, germ cell mutagenicity, reproductive toxicity (CMR):

Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Germ cell mutagenicity: no data available

Reproductive toxicity: no data available.

Specific target organ toxicity (STOT), single/repeated exposure:

no data available

Aspiration hazard:

no data available

Additional toxicological information:

RTECS: TT2100000



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12 Ecological information

12.1 Toxicity	Toxicity to fish LC50 – 80 mg/l - 96 h Gambusia affinis (Mosquito fish)
12.2 Persistence and degradability	no data available
12.3 Bioaccumulative potential	no data available
12.4 Mobility in soil	no data available
12.5 Results of PBT and vPvB assessment	no data available
12.6 Other adverse effects	Harmful to aquatic life. no data available

13 Disposal considerations

13.1 Waste treatment methods

Must not be disposed together with household garbage. Do not allow product to reach sewage system. After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

Disposal of the product / packaging

Waste codes / waste designations according to EWC

The allocation of waste identity numbers / waste descriptions must be carried out specific to industry / process in cooperation with disposal firm / producing firm / official authority.

Additional information

Contaminated packaging: Dispose of as unused product.

14 Transport information

14.1 UN number	1813
14.2 UN proper shipping name	POTASSIUM HYDROXIDE, SOLID
14.3 Transport hazard class(es)	8
14.4 Packing group	II
14.5 Environmental hazards	no
14.6 Special precautions for user	no data available
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	not applicable



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15 Regulatory information

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

EU-Regulations

no data available

National Regulations

Germany: Wassergefährdungsklasse (WGK)

slightly hazardous to water (WGK 1) Substance No. 345 of AwSV

15.2 Chemical safety assessment:

no data available

16 Other information

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations. The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions. It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations. The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Revision notes

* Changes since the last version

Abbreviations

WGK : Wassergefährdungsklasse (Water Hazard Class).

Title for H and EUH indications (Number and text)

H290 - May be corrosive to metals.

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.