

Safety Data Sheet

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

Caustic pencil BELOTY ad us. vet.

Version number: GHS 1.0

Date of compilation: 2020-01-31

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

1.1 Product identifier

Trade name	Caustic pencil BELOTY ad us. vet.
Chemical name	Potassium hydroxide
Registration number (REACH)	01-2119487136-33-xxxx
EC number	215-181-3
CAS number	1310-58-3

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

Relevant identified uses	veterinary product for dehorning calves professional use
Uses advised against	the information is not mentioned

1.3 Details of the supplier of the safety data sheet

Ing. Jaroslav Holcepl - Heap Co 2.000
Ohrazenice 151
262 23 Jince
Czech Republic

telephone: +420 311 533 336
e-mail: obchod@heapco.cz

1.4 Emergency telephone number

Emergency information service	National Poisons Information Service: In England and Wales: NHS 111 - dial 111 (www.npis.org)
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Section	Hazard class	Category	Hazard class and category	Hazard statement
2.16	substance or mixture corrosive to metals	Cat. 1	(Met. Corr. 1)	H290
3.10	acute toxicity (oral)	Cat. 4	(Acute Tox. 4)	H302
3.2	skin corrosion/irritation	Cat. 1A	(Skin Corr. 1A)	H314
3.3	serious eye damage/eye irritation	Cat. 1	(Eye Dam. 1)	H318

Remarks

For full text of H-phrases: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Danger

Pictograms

GHS05, GHS07



Hazard statements

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

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Precautionary statements

Precautionary statements - prevention

P260 Do not breathe dust.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - response

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
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

According to the results of its assessment, this substance is not a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Name of substance	potassium hydroxide
Registration number (REACH)	01-2119487136-33-xxxx
EC number	215-181-3
CAS number	1310-58-3
Content wt. %	>85 %

Remarks

Specific concentration limits:
Eye Irrit. 2; H319: $0,5\% \leq C < 2\%$
Skin Corr. 1A; H314: $C \geq 5\%$
Skin Corr. 1B; H314: $2\% \leq C < 5\%$
Skin Irrit. 2; H315: $0,5\% \leq C < 2\%$.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Following inhalation

Provide fresh air. Take off contaminated clothing. Get medical advice/attention.

Following skin contact

Take off contaminated clothing. Wash intensively with clean water (30-32 ° C). Get medical advice/attention.

Following eye contact

Immediately rinse with water min. 20 minutes. Get medical advice/attention. Continue rinsing during a transport.

Following ingestion

Do NOT induce vomiting. Rinse mouth with water (only if the person is conscious). Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

Possibility of chemical burns when reacting with acids due to strong heat generation and splashing of the reaction mixture. Ingestion causes burns in the digestive tract. Small amounts cause burning pain, throat tightening and vomiting. Larger doses cause extensive destruction, gastric perforation.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention is needed in direct contact with the product.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

non-flammable, extinguishing measures to suit surroundings

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

In case of fire and/or explosion do not breathe fumes.

5.3 Advice for firefighters

Wear protective clothing and self contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove persons to safety. Do not get in eyes, on skin, or on clothing. Personal protective equipment.

6.2 Environmental precautions

Avoid release to the environment. Keep away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up

Take up mechanically. Place in appropriate containers for disposal. Neutralize the residue with dilute sulfuric acid or hydrochloric acid. Wash affected area thoroughly with water. In the case of a larger spill, call the fire department. Disposal considerations: see section 13.

6.4 Reference to other sections

Instructions for handling and storage: see section 7. Personal protective equipment: see section 8. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Respect working directives. Use local and general ventilation. When using do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

Store in closed stores. Keep away from sources of ignition. Store away from other materials. Keep only in original container. Store in a closed container. The store must be well ventilated, dry, equipped with a first-aid kit, a source of drinking water and protected from unauthorized persons. Keep away from oxidizing substances. Storage containers must not be of aluminum, tin or zinc.

7.3 Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Country	Name of agent	CAS No	Identifier	TWA [mg/m ³]	STEL [mg/m ³]	Notation	Source
GB	dust		WEL	10		i	EH40/2005
GB	dust		WEL	4		r	EH40/2005
GB	potassium hydroxide	1310-58-3	WEL		2		EH40/2005

Notation

i Inhalable fraction

r Respirable fraction

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

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Relevant DNELs/DMELs/PNECs and other threshold levels

• human health values

Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	1 mg/m ³	human, inhalatory	professionals	chronic - local effects
DNEL	1 mg/m ³	human, inhalatory	consumer (private households)	chronic - local effects
DNEL	1 mg/cm ³	human, inhalatory	consumer (private households)	chronic - systemic effects

8.2 Exposure controls

Appropriate engineering controls

The methods of measuring workplace air shall be in accordance with EN 482 and EN 689. Use local exhaust ventilation. Provide emergency shower and eyewash facilities at the workplace.

Individual protection measures (personal protective equipment)

Follow good hygiene practices. Do not eat, drink or smoke when using this product. Wash skin with warm water after work. Reat the skin with a suitable repair cream.

Eye/face protection

Wear eye protection/face protection.

Skin protection

• hand protection

Wear suitable gloves. Appropriate material of gloves: nitrile. Check leak-tightness/impermeability prior to use.

• other skin protection

Wear protective clothing. Material: twill. Footwear protecting against chemicals.

Respiratory protection

In case of good ventilation under normal conditions of use is not required. In case of dust formation use a P2 filter respirator.

Environmental exposure controls

Avoid release to the environment. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	solid
Colour	white
Odour	odourless

Other physical and chemical parameters

pH (value)	14 (20 °C)
Melting point/freezing point	360 °C
Initial boiling point and boiling range	1,320 – 1,324 °C
Flash point	not determined
Evaporation rate	not determined
Flammability (solid, gas)	not determined
Explosion limits of dust clouds	not determined
Vapour pressure	not determined
Density	not determined
Relative density	2.044 at 20 °C (air = 1)
Solubility(ies)	
Water solubility	full soluble
Partition coefficient	
n-octanol/water (log KOW)	not determined

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Auto-ignition temperature	not determined
Viscosity	not relevant (solid matter)
Explosive properties	not determined
Oxidising properties	not determined

9.2 Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

May be corrosive to metals. Exothermic reaction with water.

10.2 Chemical stability

Stable under normal conditions of use.

10.3 Possibility of hazardous reactions

Exothermic reaction. Releases flammable hydrogen upon reaction with light metals. Exothermic reactions with acids. Reacts violently with water.

10.4 Conditions to avoid

Extremely high and low temperatures. Unstable in air. Humidity (hygroscopic substance).

10.5 Incompatible materials

light metals (due to the release of hydrogen in an acid/alkaline medium) - danger of explosion!, acids, nitriles, alkaline earth metals in powder form, ammonium compounds, cyanides, magnesium, organic nitro compounds, organic flammable, phenols, glass, plastic, animal and plant tissue

10.6 Hazardous decomposition products

Potassium hydroxide absorbs CO₂ in the atmosphere. Hydrogen: highly flammable, reacts with certain metals and their compounds.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed.

Skin corrosion/irritation

Causes severe burns. pH= 14. If the skin is not treated immediately, a poorly healing blister will form, leaving a scar. It is dangerous to hit with a weaker solution as it will start to hurt later (even after several hours).

Serious eye damage/eye irritation

Causes serious eye damage. pH = 14.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

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SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment. Avoid release to the environment. Inform the competent authorities in case of leakage into the environment.

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

12.6 Other adverse effects

Harmful effect due to pH change. Even after dilution form a corrosive mixture with water. Neutralization in sewage treatment plants is possible. Avoid release to the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Neutralization in sewage treatment plants is possible. Dispose of contents/container to an authorized waste treatment facility.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself. Dispose of contents/container to an authorized waste treatment facility.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1	UN number	1813
14.2	UN proper shipping name	POTASSIUM HYDROXIDE, SOLID
14.3	Transport hazard class(es)	
	Class	8 (corrosive substances)
14.4	Packing group	II (substance presenting medium danger)
14.5	Environmental hazards	none (non-environmentally hazardous acc. to the dangerous goods regulations)
14.6	Special precautions for user	
	There is no additional information.	
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code	
	The cargo is not intended to be carried in bulk.	

Information for each of the UN Model Regulations

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• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number	1813
Proper shipping name	POTASSIUM HYDROXIDE, SOLID
Class	8
Classification code	C6
Packing group	II
Danger label(s)	8



Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 kg
Transport category (TC)	2
Tunnel restriction code (TRC)	E
Hazard identification No	80
Emergency Action Code	2W

• International Maritime Dangerous Goods Code (IMDG)

UN number	1813
Proper shipping name	POTASSIUM HYDROXIDE, SOLID
Class	8
Packing group	II
Danger label(s)	8



Special provisions (SP)	-
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 kg
EmS	F-A, S-B
Stowage category	A
Segregation group	18 - Alkalis

• International Civil Aviation Organization (ICAO-IATA/DGR)

UN number	1813
Proper shipping name	Potassium hydroxide, solid
Class	8
Packing group	II
Danger label(s)	8



Excepted quantities (EQ)	E2
Limited quantities (LQ)	5 kg

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

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

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

• **List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list**

not listed

15.2 Chemical Safety Assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction
DGR	Dangerous Goods Regulations (see IATA/DGR)
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)
EmS	Emergency Schedule
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)
STEL	Short-term exposure limit
SVHC	Substance of Very High Concern
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

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Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

List of relevant phrases (code and full text as stated in chapter 2 and 3)

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

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.