Safety Data Sheet

In accordance with REACH Regulation EC No.1907/2006

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

1.1. Product identifier

Product name:	Potassium Hydroxide
CAS number:	1310-58-3
EINECS number:	215-181-3
Synonyms:	Caustic Potash, KOH
INCI name:	Potassium Hydroxide

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

Use of substance/mixture:	Uses of substances as such or in preparations at industrial sites.
Uses advised against:	At this moment we have not identified any uses advised against.

1.3. Details of the supplier of the safety data sheet

Company name:	Bath and Body Base Ltd 2A Laurel Way Bishop Auckland Co. Durham DL14 7NF
Tel:	07493 064263
Email:	technical@bathandbodybase.com

1.4. Emergency telephone number

Emergency tel:	07493 064263

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation S.I. 2019/720 (GB CLP):	Corrosive to metals - Category 1; H290 Acute toxicity (Oral) - Category 4; H302 Skin corrosion - Category 1A; H314 For the full text of the H-Statements mentioned in this Section, see Section 16.
Most important adverse effects:	Human Health: See Section 11 for toxicological information. Physical and chemical hazards: See Section 9/10 for physicochemical information. Potential environmental effects: See Section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation S.I. 2019/720 (GB CLP):

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

Signal words:
Danger

Hazard pictograms:

GHS05 GHS07

Precautionary statements:
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P260 Do not breathe dust/mist.
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.
P303+P361+P353 IF ON SKIN (or hair), take off immediately all contaminated clothing. Rinse skin with water/shower.

Hazardous components which must be listed on the label:
Potassium Hydroxide

2.3. Other hazards

Other hazards:
For results of PBT and vPvB assessment see Section 12.5.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical nature:
Chemical intermediate

Chemical identity:

Potassium Hydroxide
Index No.: 019-002-00-8
CAS No.: 1310-58-3
EC No.: 215-181-3
EU REACH Reg. No.: 01-2119487136-33-xxxx
Amount (%): >= 89.5
Hazard class/category: Met. Corr. 1, Acute Tox. 4 Oral, Skin Corr. 1A, Eye Dam.1
Hazard statements: H290, H302, H314, H318

Sodium Hydroxide
Index No.: 011-002-00-6
CAS No.: 1310-73-2
EC No.: 215-185-5
Amount (%): <= 1
Hazard class/category: Met. Corr. 1, Skin Corr. 1A
Hazard statements: H290, H314

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Section 4: First aid measures

4.1. Description of first aid measures

General advice: Take off all contaminated clothing immediately.

Skin contact: Wash off immediately with plenty of water for at least 15 minutes. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.

Eye contact: Rinse immediately with plenty of water, also under the eyelids for at least 15 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.

Ingestion: Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If a person vomits when lying on his back, place him in the recovery position. Call a physician immediately.

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms: Extremely corrosive and destructive to tissue. See Section 11 for more detailed information on health effects and symptoms.

Effects: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. See Section 11 for more detailed information on health effects and symptoms.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate/special treatment: Treat symptomatically.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

Unsuitable extinguishing media: No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards during fire-fighting: Gives off hydrogen by reaction with metals. Risk of explosion.

5.3. Advice for fire-fighters

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus. Wear appropriate body protection (full protective suit).

Further advice: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment. Keep away unprotected persons. Avoid dust formation. Avoid contact with skin, eyes and clothing. Do not breathe dust. Contaminated surfaces will be extremely slippery.

6.2. Environmental precautions

Environmental precautions: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Use mechanical handling equipment. Keep in suitable, closed containers for disposal. Flush with plenty of water.

Further information: Treat recovered material as described in the section "Disposal considerations".

6.4. Reference to other sections

Reference to other sections: See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

Section 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling: Keep container tightly closed. Avoid dust formation. Use personal protective equipment. Avoid contact with the skin and the eyes. Provide appropriate exhaust ventilation at places where dust is formed. Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures: Keep away from food, drink and animal feeding stuffs. Smoking, eating and drinking should be prohibited in the application area. Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately. Avoid contact with the skin and the eyes. Do not breathe dust.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep in an area equipped with alkali resistant flooring.
Suitable materials for containers: polyethylene containers.
Unsuitable materials for containers: Aluminium; Zinc.

Advice on protection against fire and explosion: The product is not flammable. Gives off hydrogen by reaction with metals. Risk of explosion.

Fire-fighting class: Non-combustible.

Further information on storage conditions: Keep container tightly closed and dry. Product is hygroscopic. Keep in a well-ventilated place.

Advice on common Storage: Keep away from food, drink and animal feeding stuffs.

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Section 8: Exposure controls/personal protection

8.1. Control parameters

Component:
Potassium Hydroxide
CAS No.: 1310-58-3

Derived No Effect Level (DNEL)/Derived Minimal Effect Level (DMEL)

DNEL
Workers, long-term - local effects, inhalation: 1mg/m3

DNEL
Consumers, long-term - local effects, inhalation: 1mg/m3

Predicted No Effect Concentration (PNEC)
No PNEC value was derived.

Other Occupational Exposure Limit Values
UK. EH40 Workplace Exposure Limits (WELs), as amended, Short Term Exposure Limit (STEL): 2mg/m3, (15 minutes)

ELV (IE), Short Term Exposure Limit (STEL): 2mg/m3, (15 minutes)

Component:
Sodium Hydroxide
CAS No.: 1310-73-2

Other Occupational Exposure Limit Values
UK. EH40 Workplace Exposure Limits (WELs), as amended, Short Term Exposure Limit (STEL): 2mg/m3, (15 minutes)

ELV (IE), Short Term Exposure Limit (STEL): 2mg/m3, (15 minutes)

8.2. Exposure controls

PPE - respiratory protection: Respirator must be worn if exposed to dust.
Recommended filter type:
Particle filter: P2
Particle filter: P3

PPE - hand protection: The glove material has to be impermeable and resistant to the product/the substance/ the preparation. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). The following materials are suitable: natural rubber, polychloroprene, Nitrile rubber, Polyvinylchloride, fluorocarbon rubber. Protective gloves should be replaced at first signs of wear.

PPE - eye protection: Tightly fitting safety goggles.

PPE - skin protection: Alkali resistant protective clothing.

Environmental: Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration. If the product contaminates rivers and lakes or drains inform respective authorities.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Flakes/pellets

Colour: White

Odour: Odourless

Odour threshold: Not applicable.

pH: 14 (100g/l; 20°C) (as aqueous solution) >11.5 (1%) (as aqueous solution)

Melting point/range: 406°C

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Boiling point/boiling range:	1,327°C
Flashpoint:	Not applicable.
Evaporation rate:	Not applicable.
Flammability (solid, gas):	Does not ignite.
Upper explosion limit:	Not applicable.
Lower explosion limit:	Not applicable.
Vapour pressure:	1.3hPa (719°C)
Relative vapour density:	Not applicable.
Density:	0.8g/cm3
Water solubility:	1,200g/l (25°C)
Partition coefficient: n-octanol/water:	No data available.
Auto-ignition temperature:	Not applicable.
Thermal decomposition:	No data available.
Viscosity, kinematic:	Not applicable
Explosive properties:	EU legislation: Not explosive.
Explosivity:	Product is not explosive.
Oxidizing properties:	Not oxidising.

9.2. Other information

Corrosion to metals:	Corrosive to metals.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity:	No decomposition if used as directed.

10.2. Chemical stability

Chemical stability:	No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Hazardous reactions:	Exothermic reaction with strong acids. Reacts exothermically with water. Gives off hydrogen by reaction with base metals (zinc, aluminium). Risk of explosion.

10.4. Conditions to avoid

Conditions to avoid:	Protect from humidity and keep away from water. Product is hygroscopic.
Thermal decomposition:	No data available.

10.5. Incompatible materials

Materials to avoid:	Water, amines, ammonia, light metals, strong acids, ammonium compounds, halogenated compounds, organic materials.

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10.6. Hazardous decomposition product

Haz. decomp. products: No information available.

Section 11: Toxicological information

11.1. Information on toxicological effects

Data for the product:

Acute toxicity

Oral

Please find this information in the listing of the component/ components below in this section.

Inhalation

No data available.

Dermal

No data available.

Irritation

Skin

Result: Please find this information in the listing of the component/ components below in this section.

Eyes

Result: Please find this information in the listing of the component/ components below in this section.

Sensitisation

Result: Please find this information in the listing of the component/ components below in this section.

CMR effects

CMR properties

Carcinogenicity: No data available.
Mutagenicity: No data available.
Teratogenicity: No data available.
Reproductive toxicity: No data available.

Specific Target Organ Toxicity

Single exposure

Remarks: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Repeated exposure

Remarks: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Other toxic properties

Aspiration hazard

No aspiration toxicity classification.

Further information

Other relevant toxicity information: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

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Component:
Potassium Hydroxide
CAS No.: 1310-58-3

Acute toxicity
Oral
LD50: 333mg/kg (Rat, male) (OECD Test Guideline 425)

Irritation
Skin
Result: Very corrosive (reconstructed human epidermis (RhE)) (OECD Test Guideline 431). May cause burns with pain, redness and wounds.

Eyes
Result: Very corrosive (Rabbit) (OECD Test Guideline 405).

Sensitisation
Result: Not sensitizing (Guinea Pig)

Section 12: Ecological information

12.1. Toxicity

Component:
Potassium Hydroxide
CAS No.: 1310-58-3

Acute toxicity
Fish
LC50: 80mg/l (Gambusia affinis (Mosquito fish); 96h) (static test)
165mg/l (Poecilia reticulata; 24h).

Bacteria
EC50: 22mg/l (Photobacterium phosphoreum; 15min).

Component:
Sodium Hydroxide
CAS No.: 1310-73-2

Acute toxicity
Fish
No data available.

Toxicity to daphnia and other aquatic invertebrates
EC50: 40.4mg/l (Ceriodaphnia (water flea), Immobilization; 48h) (No guideline followed).

12.2. Persistence and degradability

Component:
Potassium Hydroxide
CAS No.: 1310-58-3

Persistence
No data available.

Biodegradability
The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

Component:
Potassium Hydroxide
CAS No.: 1310-58-3

Bioaccumulation
Bioaccumulation is not expected.

12.4. Mobility in soil

Component:
Potassium Hydroxide
CAS No.: 1310-58-3

Mobility
Soil: Adsorption to solid soil phase is not expected.
Water: The product is water soluble.

12.5. Results of PBT and vPvB assessment

Component:
Potassium Hydroxide
CAS No.: 1310-58-3

Results of PBT and vPvB assessment
The PBT or vPvB criteria of Annex XIII to the REACH Regulation does not apply to inorganic substances.

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12.6. Other adverse effects

Data for the product:

Additional ecological information
Harmful effects to aquatic organisms due to pH-shift. Neutralization is normally necessary before waste water is discharged into water treatment plants. Do not flush into surface water or sanitary sewer system.

Section 13: Disposal considerations

13.1. Waste treatment methods

Product:

Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.

Contaminated packaging:

Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning. Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

European waste catalogue number:

No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

Section 14: Transport information

UN number or ID number:

1813

UN proper shipping name:

ADR: Potassium Hydroxide, Solid
RID: Potassium Hydroxide, Solid
IMDG: Potassium Hydroxide, Solid

Transport hazard class(es):

ADR-Class: 8
(Labels; Classification Code; Hazard Identification Number; Tunnel restriction code): 8; C6; 80; (E)
RID-Class: 8
(Labels; Classification Code; Hazard Identification Number): 8; C6; 80
IMDG-Class: 8
(Labels; EmS): 8; F-A, S-B

Packaging group:

ADR: II
RID: II
IMDG: II

Environmental hazards:

Environmentally hazardous according to ADR: no
Environmentally hazardous according to RID: no
Marine pollutant according to IMDG-Code: no

Special precautions for user:

Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:

IMDG: Not applicable.

Section 15: Regulatory information

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

Component:
Potassium Hydroxide
CAS No.: 1310-58-3

AwSV (DE): WGK 1: slightly hazardous to water: 345

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15.2. Chemical Safety Assessment

Chemical safety assessment: A Chemical Safety Assessment has been carried out for this substance.

Section 16: Other information

16.1. Other information

Full text of H-Statements referred to under Sections 2 and 3:

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

Other information: * Indicates text in the SDS which has changed since the last revision.

Legal disclaimer: This information is provided for documentation purposes only.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product.

Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.

Compliance with all appropriate local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations which the user may experience during processing.

Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary.

All health and safety information contained in this document should be provided to your employees or customers.

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