



The Soap Kitchen

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

CAUSTIC POTASH SOLID (All grades)

Version 3.5

Print Date 2011/10/10

Revision Date 2011/10/10

MSDS code: MCPF100

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

1.1. Product identifier

Trade name : CAUSTIC POTASH SOLID (All grades)
Substance name : potassium hydroxide
Index-No. : 019-002-00-8
CAS-No. : 1310-58-3
EC-No. : 215-181-3

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

Use of the Substance/Mixture : At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.
Recommended restrictions on use : At this time we do not yet have information on identified uses. They will be included in this safety data sheet when available.

1.3. Details of the supplier of the safety data sheet

Company: The Soap Kitchen
Unit 2 D&E Hatchmoor Industrial Estate
Torrington, Devon. EX38 7HP
Tel:01805 622944 Email:info@thesoapkitchen.co.uk

1.4. Emergency telephone number

Emergency telephone number : Emergency only telephone number (open 24 hours):
01865 407333 (N.C.E.C. Culham)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008			
Hazard class	Hazard category	Target Organs	Hazard statements
Corrosive to metals	Category 1	---	H290
Acute toxicity	Category 4	---	H302



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Skin corrosion

Category 1A

H314

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Directive 67/548/EEC or 1999/45/EC	
Hazard symbol / Category of danger	Risk phrases
Corrosive (C)	R35
Harmful (Xn)	R22

For the full text of the R-phrases 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 for physicochemical information.
- Potential environmental effects : See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols :



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

Prevention : P260 Do not breathe dust or mist.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response : P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take



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P305 + P351 + P338 off immediately all contaminated clothing.
 Rinse skin with water/ shower.
 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 or doctor/ physician.

Hazardous components which must be listed on the label:

- potassium hydroxide

2.3. Other hazards

For Results of PBT and vPvB assessment see section 12.5.

3. Composition/information on ingredients

3.1. Substances

Chemical nature : Chemical intermediate

Hazardous components	Amount [%]	Classification (REGULATION (EC) No 1272/2008)		Classification (67/548/EEC)
		Hazard class / Hazard category	Hazard statements	
potassium hydroxide				
Index-No. : 019-002-00-8	≥ 89.5	Acute Tox.4	H302	Xn; R22 C; R35
CAS-No. : 1310-58-3		Skin Corr.1A	H314	
EC-No. : 215-181-3		Met. Corr.1	H290	
sodium hydroxide				
Index-No. : 011-002-00-6	≤ 1	Met. Corr.1	H290	C; R35
CAS-No. : 1310-73-2		Skin Corr.1A	H314	
EC-No. : 215-185-5				

For the full text of the R-phrases mentioned in this Section, see Section 16.
 For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

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4.1. Description of first aid measures

- | | |
|-------------------------|--|
| General advice | : Take off all contaminated clothing immediately. |
| If inhaled | : 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. |
| In case of 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. |
| In case of 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. |
| If swallowed | : 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. |

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

- | | |
|-----------|---|
| Treatment | : Treat symptomatically.No further information available. |
|-----------|---|

5. Firefighting 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



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Specific hazards during firefighting : Gives off hydrogen by reaction with metals. Risk of explosion.

5.3. Advice for firefighters

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

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

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 materials for containment and cleaning up

Methods and materials for containment and cleaning up : 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

See Section 1 for emergency contact information.
See Section 8 for information on personal protective equipment.
See Section 13 for waste treatment information.

7. Handling and storage

7.1. Precautions for safe handling

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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 feedingstuffs. 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.

Further information on storage conditions : Keep container tightly closed and dry. Suitable materials for containers: Keep in a well-ventilated place.

Advice on common storage : Keep away from food, drink and animal feedingstuffs.

7.3. Specific end uses

Specific use(s) : No information available.

8. Exposure controls/personal protection

8.1. Control parameters

Component: potassium hydroxide

CAS-No.
1310-58-3

Other OELs

EH40 WEL, Short Term Exposure Limit (STEL):
2 mg/m³

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Component: sodium hydroxide

CAS-No.

1310-73-2

Other OELs

EH40 WEL, Short Term Exposure Limit (STEL):
2 mg/m³

8.2. Exposure controls

Personal protective equipment

Respiratory protection

Advice : Respirator must be worn if exposed to dust.
Recommended Filter type:
Particle filter:P2
Particle filter:P3

Hand protection

Advice : 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.

Eye protection

Advice : Tightly fitting safety goggles

Skin and body protection

Advice : alkali resistant protective clothing

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.

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If the product contaminates rivers and lakes or drains inform respective authorities.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	:	flakes pellets
Colour	:	white
Odour	:	odourless
Odour Threshold	:	not applicable
pH	:	14 (100 g/l; 20 °C) (as aqueous solution) > 11.5 (as aqueous solution)
Melting point/range	:	406 °C
Boiling point/boiling range	:	1,327 °C
Flash point	:	not applicable
Evaporation rate	:	not applicable
Flammability (solid, gas)	:	does not ignite
Upper explosion limit	:	not applicable
Lower explosion limit	:	not applicable
Vapour pressure	:	1.3 hPa (719 °C)
Relative vapour density	:	not applicable
Density	:	0.8 g/cm ³
Water solubility	:	1200 g/l (25 °C)
Partition coefficient: n-octanol/water	:	no data available
Ignition temperature	:	not applicable

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Thermal decomposition	:	no data available
Viscosity, dynamic	:	not applicable
Explosive properties	:	EU legislation: Not explosive
Explosivity	:	Product is not explosive.
Oxidizing properties	:	not oxidising

9.2. Other information

No further information available.

10. Stability and reactivity

10.1. Reactivity

Advice : No decomposition if used as directed.

10.2. Chemical stability

Advice : No decomposition if stored and applied as directed.

10.3. Possibility of hazardous reactions

Hazardous reactions : Exothermic reaction with strong acids. Reacts exothermic 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

10.6. Hazardous decomposition products

Hazardous decomposition products : No information available.

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11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Oral

Acute toxicity estimate : 492.42 mg/kg) (Calculation method)

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.

Component: potassium hydroxide

**CAS-No.
1310-58-3**

Acute toxicity

Oral

LD50 Oral : 333 - 388 mg/kg (rat)

Irritation

Skin

Result : Very corrosive (rabbit)

Eyes

Result : Very corrosive (rabbit)
Risk of serious damage to eyes.

Sensitisation

Result : not sensitizing (guinea pig)

12. Ecological information

12.1. Toxicity

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Acute toxicity

Acute aquatic toxicity

Result : no data available

Chronic toxicity

Chronic aquatic toxicity

Result : no data available

Component: potassium hydroxide

**CAS-No.
1310-58-3**

Acute toxicity

Fish

LC50 : 80 mg/l (Gambusia affinis; 96 h)

LC50 : 165 mg/l (Poecilia reticulata; 24 h)

Bacteria

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

Component: sodium hydroxide

**CAS-No.
1310-73-2**

Acute toxicity

Fish

LC50 : 125 mg/l (Gambusia affinis; 96 h)

LC50 : 145 mg/l (Poecilia reticulata; 24 h)

Toxicity to daphnia and other aquatic invertebrates.

EC50 : 76 mg/l (Daphnia magna; 24 h)

Bacteria

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

12.2. Persistence and degradability

Persistence and degradability

Persistence

Result : no data available

Biodegradability

Result : no data available

12.3. Bioaccumulative potential

Bioaccumulation

Result : no data available

12.4. Mobility in soil

Mobility

Result : no data available

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

Result : This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

12.6. Other adverse effects

Additional ecological information

Result : Harmful effects to aquatic organisms due to pH-shift.

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Neutralization is normally necessary before waste water is discharged into water treatment plants.
Do not flush into surface water or sanitary sewer system.

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 packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings 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.

14. Transport information

14.1. UN number

1813

14.2. UN proper shipping name

ADR : POTASSIUM HYDROXIDE, SOLID
RID : POTASSIUM HYDROXIDE, SOLID
IMDG : POTASSIUM HYDROXIDE, SOLID

14.3. Transport hazard class(es)

ADR-Class : 8
(Labels; Classification Code; Hazard identification No; Tunnel restriction code) 8; C6; 80; (E)
RID-Class : 8
(Labels; Classification Code; Hazard identification No) 8; C6; 80
IMDG-Class : 8
(Labels; EmS) 8; F-A, S-B

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14.4. Packaging group

ADR : II
RID : II
IMDG : II

14.5. Environmental hazards

Labeling according to 5.2.1.8 ADR : no
Labeling according to 5.2.1.8 RID : no
Labeling according to 5.2.1.6.3 IMDG : no
Classification as environmentally
hazardous according to 2.9.3 IMDG : no

14.6. Special precautions for user

Not applicable.

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

IMDG : Not applicable.

15. Regulatory information

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

15.2. Chemical Safety Assessment

Currently we do not have any Information from our supplier about this.

16. Other information

Full text of R-phrases referred to under sections 2 and 3.

R22 Harmful if swallowed.
R35 Causes severe burns.

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.

Further information

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Other information : Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use. The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision. The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality specification and does not constitute a legal relationship.
The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

|| Indicates updated section.