

1. Identification

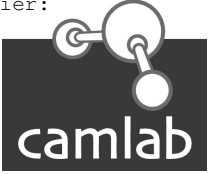
Product Code 1110570

Product Name **POTASSIUM HYDROXIDE PELLETS pure**

Molecular Formula **KOH =56.11**

CAS Number 1310-58-3

Supplier: **CAMLAB LIMITED**
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Over
Cambridge
England
CB4 5WE

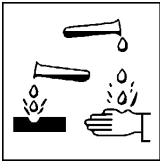


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2. Composition

| Component | CAS No | EEC No | Conc w/w | Classification & Risk Phrases | Exp (See 8.1) |
|---------------------|-----------|-----------|----------|-------------------------------|---------------|
| Potassium hydroxide | 1310-58-3 | 215-181-3 | > 85.0% | C : R22,R35 | WEL |

3. Hazards Identification

Harmful if swallowed. Causes severe burns.

4. First Aid Measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION URGENTLY.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. If irritation persists or there is any sign of skin damage, seek IMMEDIATE MEDICAL ASSISTANCE

Inhalation Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION URGENTLY.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. OBTAIN MEDICAL ATTENTION URGENTLY.

5. Fire Fighting Measures

Hazards Presents no specific fire danger.

Extinguishing Media Consider what other flammable materials are present and act accordingly.

Unsuitable Media Do not allow water to come into direct contact with material.

6. Accidental Release Measures

| | |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal Protection | Avoid breathing dust. Use approved personal protective equipment. Evacuate area immediately. Do not allow other people to enter area. Do not allow general use of area until it is safe to do so. |
| Environmental | Keep non-neutralised material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs. |
| Major Spillage | Contain spill with inert material. Neutralise with 5M hydrochloric acid. Wash area down with copious amounts of water. |
| Minor Spillage | Wash area down with copious amounts of water. |

7. Storage & Handling

| | |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Handling Precautions | Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing. Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits. |
| Storage Conditions | Store in a dry place protected against moisture and water. Keep well separated from acids, metals, explosives, organic peroxides and ignitable materials. |

8.1 Workplace Exposure Limits

8.2 Personal Protection

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|-------------|--------------------------------------------------------------------------------------------------------------|
| Respiratory | If process creates significant amounts of dust use L.E.V. or wear suitable dust mask. |
| Hands | Use nitrile gloves or PVC gauntlets. |
| Eyes | Use chemical full face shield. |
| Skin | If skin contact or contamination of clothing is likely, protective clothing must be worn. Wear PVC oversuit. |

9. Physical & Chemical Properties

| | |
|-----------------------|------------------------------------------------------------------------------------------|
| Appearance | White waxy beads. |
| Odour | Odourless. |
| pH | 14 @ 20 °C |
| Boiling point | 1320.0 °C |
| Melting point | 360.0 °C |
| Flash point | Not available |
| Upper Flammable Limit | Not available |
| Lower Flammable Limit | Not available |
| Auto Ignition | Not available |
| Explosive properties | No. |
| Oxidising Properties | No. |
| Vapour Pressure | 1 mm @ 719,C |
| Relative Density | 2.0440 °C |
| Water Solubility | Completely soluble in water but reacts vigorously with much evolution of heat and fumes. |

10. Stability & Reactivity

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|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chemical Stability | Stable under normal conditions |
| Conditions to Avoid | No specific conditions. |
| Materials to Avoid | Acids. Warm ammoniacal silver nitrate. Nitrobenzene. Sodium tetrahydroborate. Reacts with aluminium and zinc to produce extremely flammable hydrogen gas. Bromine. Chloroform and methanol. |
| Hazardous Decomposition Products | None unusual. |

11. Toxicological Information

| | |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eyes | The solid and solutions will cause severe burns. Damage can range from severe irritation and corneal scarring to permanent blindness. |
| Skin | Contact with the solid or solution will not lead to immediate pain but damage begins at once. Severe ulceration and scarring may occur in serious cases. |
| LD50 Skin | Not available |
| Ingest | Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus. |
| LD50 Ingest | Not available |
| Inhalation | Prolonged exposure to dust or fume concentrations above the occupational exposure limits will produce severe irritation of the eyes, nose, throat and respiratory tract. |
| Carcinogenicity | Has been implicated as a possible cause of cancer of the oesophagus after very prolonged exposure. Carcinogenesis in these cases may be due to tissue destruction and scar formation. |
| Mutagenicity | Not considered to be a mutagen. |
| Reproductive Effects | None identified. |
| Other Information | The irritant effect provides warning that control of exposure is needed. |

12. Ecological

Causes no biological oxygen consumption. Fish toxicity LD50 189mg/l. Toxic effects on fish and plankton, also harmful through shifting of pH

13. Disposal Considerations

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|------------------------|---------------------------------------------------------------------------------------|
| Disposal Methods | Do not dispose of as domestic waste. |
| Contaminated Packaging | Clean out with a weak hydrochloric acid solution then wash out thoroughly with water. |

14. Transport Information

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|----------------------|----------------------------|
| Proper Shipping Name | Potassium Hydroxide, Solid |
| UN Number | 1813 |
| UN Classification | 8 Corrosive |
| Subsidiary Risk | None |
| Flash Point | Not available |
| Packing Group | II |
| Transport Category | 2 |
| Marine pollutant | No |
| ADR Hazard ID | 80 |



15. Regulatory Information

| | |
|----------------|------------|
| Labelling | Corrosive. |
| Classification | |

| | | |
|---------------|---|-------------------------------------------------------------------------------------|
| Label Symbols | C |  |
|---------------|---|-------------------------------------------------------------------------------------|

| | |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Risk & safety Phrases | Harmful if swallowed. Causes severe burns. Keep locked up and out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label). |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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|------------|-----------|
| EEC Number | 215-181-3 |
|------------|-----------|

16. Other Information

Document Information This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

Revision Date: 20/02/06.

Data reviewed and PDF file generated: 17/03/10.

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