

SECTION 1: Identification

1.1. Product identifier

| | |
|-----------------|---|
| Trade name | : POTASSIUM HYDROXIDE |
| Type of product | : Hygroscopic substance. Preventive measures apply to the substance in dry state only |
| EC-No. | : 215-181-3 |
| EC Index-No. | : 019-002-00-8 |
| CAS-No. | : 1310-58-3 |
| UN-No. (ADR) | : 1813 |
| Product code | : 116145xxx |
| Formula | : KOH |

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

| | |
|-----------------------------------|---------------------------|
| Recommended uses and restrictions | : For laboratory use only |
|-----------------------------------|---------------------------|

1.3. Supplier's details

Labchem (Pty)Ltd
 6 Wakefield Road
 Founders Hill
 1609 Johannesburg - South Africa
 T +27 11 452 1116 - F +27 86 588 0293
techlab@labchem.co.za - www.labchem.co.za

1.4. Emergency telephone number

| | |
|------------------|-------------------|
| Emergency number | : +27 11 452 1116 |
|------------------|-------------------|

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

| | |
|---------------------------------------|------------------|
| Acute toxicity (oral), Category 4 | H302 |
| Skin corrosion/irritation, Category 1 | H314 |
| Full text of H statements | : see section 16 |

2.2. Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS-ZA) :



Signal word (GHS-ZA) : Danger

Hazard statements (GHS-ZA) : H302 - Harmful if swallowed.
 H314 - Causes severe skin burns and eye damage.

Precautionary statements (GHS-ZA) :

- P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 - Wash hands, forearms and face thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
- P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
- P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 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 or doctor.
- P321 - Specific treatment (see supplemental first aid instruction on this label).
- P330 - Rinse mouth.
- P363 - Wash contaminated clothing before reuse.
- P405 - Store locked up.
- P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Adverse physicochemical, human health and environmental effects : Harmful if swallowed, Causes severe skin burns and eye damage.

POTASSIUM HYDROXIDE

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance identification codes: See section 1.1

| Name | Product identifier | % | Classification according to the United Nations GHS |
|---|---------------------|------|--|
| potassium hydroxide (Main constituent) | (CAS-No.) 1310-58-3 | ≥ 85 | Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314 |

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures general | : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Call a physician immediately. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service. Doctor: administration of corticoid spray. |
| First-aid measures after skin contact | : Wash immediately with lots of water (15 minutes)/shower. Do not apply (chemical) neutralizing agents without medical advice. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital. Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately. |
| First-aid measures after eye contact | : Rinse immediately with plenty of water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Cover eyes aseptically. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion | : Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Do not apply (chemical) neutralizing agents without medical advice. Immediately consult a doctor/medical service. Call Poison Information Centre (www.big.be/antigif.html). Ingestion of large quantities: immediately to hospital. Take the container/vomit to the doctor/hospital. Rinse mouth. Do not induce vomiting. Call a physician immediately. |

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

| | |
|---|---|
| Symptoms/effects after inhalation | : AFTER INHALATION OF DUST: Dry/sore throat. Corrosion of the upper respiratory tract. Respiratory difficulties. FOLLOWING SYMPTOMS MAY APPEAR LATER: Possible oedema of the upper respiratory tract. Possible inflammation of the respiratory tract. Possible laryngeal spasm/oedema. Risk of pneumonia. |
| Symptoms/effects after skin contact | : Caustic burns/corrosion of the skin. Slow-healing wounds. Burns. |
| Symptoms/effects after eye contact | : Corrosion of the eye tissue. Permanent eye damage. Blindness. Serious damage to eyes. |
| Symptoms/effects after ingestion | : Abdominal pain. Difficulty in swallowing. Possible esophageal perforation. Burns to the gastric/intestinal mucosa. Blood in vomit. AFTER INGESTION OF HIGH QUANTITIES: Change in the haemogramme/blood composition. Disturbances of heart rate. FOLLOWING SYMPTOMS MAY APPEAR LATER: Bleeding of the gastrointestinal tract. Low arterial pressure. Blood in stool. Shock. Burns. |
| Chronic symptoms | : Dry skin. Skin rash/inflammation. |
| Potential adverse human health effects and symptoms | : Harmful if swallowed. Causes severe skin burns. Causes serious eye damage. |

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|------------------------------|--|
| Suitable extinguishing media | : Adapt extinguishing media to the environment for surrounding fires. Water spray. Dry powder. Foam. |
|------------------------------|--|

5.2. Special hazards arising from the substance or mixture

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|------------------|--|
| Fire hazard | : DIRECT FIRE HAZARD: Non combustible. INDIRECT FIRE HAZARD: Reactions involving a fire hazard: see "Reactivity Hazard". |
| Explosion hazard | : INDIRECT EXPLOSION HAZARD: Reactions with explosion hazards: see "Reactivity Hazard". |

POTASSIUM HYDROXIDE

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.

Firefighting instructions : Cool tanks/drums with water spray/remove them into safety. Take account of toxic fire-fighting water. Use water moderately and if possible collect or contain it.

Protection during firefighting : Heat/fire exposure: compressed air/oxygen apparatus. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.1. For non-emergency personnel

Protective equipment : Gloves. Face shield. Corrosion-proof suit. Dust cloud production: compressed air/oxygen apparatus.

Emergency procedures : Ventilate spillage area. Mark the danger area. No naked flames. Avoid ingress of water in the containers. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Prevent soil and water pollution. Prevent spreading in sewers.

6.3. Methods and material for containment and cleaning up

For containment : Contain released product, pump into suitable containers. Plug the leak, cut off the supply. Dam up the solid spill. Knock down/dilute dust cloud with water spray. Take account of toxic/corrosive precipitation water. Hazardous reaction: measure explosive gas-air mixture. Reaction: dilute combustible gas/vapour with water curtain.

Methods for cleaning up : Mechanically recover the product. Collect the spill only if it is in a dry state. Wetted substance: cover with dry sand/earth. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Take collected spill to manufacturer/competent authority. Small quantities of liquid spill: neutralize with dilute acid solution. Wash away neutralized product with plentiful water. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid raising dust. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Use corrosionproof equipment. Thoroughly clean/dry the installation before use. Do not discharge the waste into the drain. Avoid contact of substance with water. Never dilute by pouring water to the product. Always add the product to the water. Keep container tightly closed. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures : Observe very strict hygiene - avoid contact. Safety showers and eye wash fountains should be readily available in handling and storage areas. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

Storage area : Store in a dry area. Keep container in a well-ventilated place. Keep locked up. Unauthorized persons are not admitted. Meet the legal requirements.

Incompatible materials : May be corrosive to metals. May be corrosive to metals.

Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources.

Information on mixed storage : KEEP SUBSTANCE AWAY FROM: combustible materials. oxidizing agents. (strong) acids. highly flammable materials. metals. organic materials. water/moisture.

Special rules on packaging : SPECIAL REQUIREMENTS: hermetical. watertight. corrosion-proof. dry. clean. correctly labelled. meet the legal requirements. Secure fragile packagings in solid containers.

Packaging materials : SUITABLE MATERIAL: steel. stainless steel. carbon steel. iron. nickel. cardboard. synthetic material. polyethylene. glass. stoneware/porcelain. MATERIAL TO AVOID: lead. aluminium. copper. tin. zinc. bronze.

POTASSIUM HYDROXIDE

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

Storage temperature : 20 °C

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| POTASSIUM HYDROXIDE (1310-58-3) | |
|--|----------------------------|
| South Africa - Occupational Exposure Limits (Recommended Limits) | |
| Local name | Potassium hydroxide |
| OEL STEL (mg/m ³) | 2 mg/m ³ |
| Regulatory reference | Government Notice. R: 1179 |

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Materials for protective clothing : GIVE EXCELLENT RESISTANCE: butyl rubber. natural rubber. neoprene. PVC. viton. GIVE GOOD RESISTANCE: chloroprene rubber. chlorosulfonated polyethylene. tetrafluoroethylene. polyethylene/ethylenevinylalcohol. GIVE POOR RESISTANCE: leather. natural fibres. PVA

Hand protection : Gloves

Eye protection : Face shield. In case of dust production: protective goggles

Skin and body protection : Corrosion-proof clothing. In case of dust production: head/neck protection

Respiratory protection : Dust production: dust mask with filter type P3. Self-contained breathing apparatus if conc. in air > 1 vol %

Personal protective equipment symbol(s):



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|----------------------------------|
| Physical state | : Solid |
| Appearance | : Solid. |
| Molecular mass | : 56.1 g/mol |
| Colour | : White. |
| Odour | : Odourless. |
| Odour threshold | : No data available |
| pH | : 13.5 (0.56 %, 25 °C) |
| pH solution | : No data available |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Relative evaporation rate (ether=1) | : Data not required |
| Melting point | : 406 °C |
| Freezing point | : Not applicable |
| Boiling point | : 1327 °C (1013 hPa) |
| Flash point | : Not applicable |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : Not applicable |
| Flammability (solid, gas) | : Non flammable. |
| Vapour pressure | : ≤ 0.01 hPa (520 °C) |
| Vapour pressure at 50 °C | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : 2.04 (20 °C) |
| Relative density of saturated gas/air mixture | : No data available |
| Density | : 2044 kg/m ³ (20 °C) |

POTASSIUM HYDROXIDE

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

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|---|---|
| Relative gas density | : No data available |
| Solubility | : Exothermically soluble in water. Soluble in ethanol. Soluble in glycerol. Water: 121 g/100ml (25 °C) |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Partition coefficient n-octanol/water (Log Kow) | : No data available |
| Viscosity, kinematic | : 0.538 mm ² /s |
| Viscosity, dynamic | : 1.1 mPa·s (25 °C, 10 %) |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : Not applicable |
| Lower explosive limit (LEL) | : No data available |
| Upper explosive limit (UEL) | : No data available |

9.2. Other information

| | |
|------------------|---|
| VOC content | : Not applicable (inorganic) |
| Other properties | : Translucent. Hygroscopic. Basic reaction. |

SECTION 10: Stability and reactivity

10.1. Reactivity

May be corrosive to metals. Absorbs the atmospheric CO₂. Violent to explosive reaction with many compounds e.g.: with organic material, with (some) halogens and with (some) acids: heat release resulting in increased fire or explosion risk. Violent exothermic reaction with water (moisture). Reacts on exposure to water (moisture) with combustible materials: risk of spontaneous ignition.

10.2. Chemical stability

Hygroscopic. Absorbs the atmospheric CO₂.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Reacts on exposure to water (moisture) with (some) metals: release of highly flammable gases/vapours (hydrogen).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|-------------------------|
| Acute toxicity (oral) | : Harmful if swallowed. |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

POTASSIUM HYDROXIDE (1310-58-3)

| | |
|---------------|--|
| LD50 oral rat | 333 – 388 mg/kg bodyweight (Equivalent or similar to OECD 425, Rat, Male, Experimental value, Oral, 14 day(s)) |
|---------------|--|

| | |
|-----------------------------------|---|
| Skin corrosion/irritation | : Causes severe skin burns. pH: 13.5 (0.56 %, 25 °C) |
| Serious eye damage/irritation | : Assumed to cause serious eye damage pH: 13.5 (0.56 %, 25 °C) |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |

POTASSIUM HYDROXIDE (1310-58-3)

| | |
|----------------------|--------------------------|
| Viscosity, kinematic | 0.538 mm ² /s |
|----------------------|--------------------------|

| | |
|---|--|
| Potential adverse human health effects and symptoms | : Harmful if swallowed. Causes severe skin burns. Causes serious eye damage. |
|---|--|

POTASSIUM HYDROXIDE

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|---|
| Ecology - general | : Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008. Before neutralisation, the product may represent a danger to aquatic organisms. |
| Ecology - air | : Not included in the list of substances which may contribute to the greenhouse effect (IPCC). Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014). Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). |
| Ecology - water | : Groundwater pollutant. pH shift. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |

12.2. Persistence and degradability

| POTASSIUM HYDROXIDE (1310-58-3) | |
|---------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD) | Not applicable (inorganic) |
| ThOD | Not applicable (inorganic) |

12.3. Bioaccumulative potential

| POTASSIUM HYDROXIDE (1310-58-3) | |
|---------------------------------|----------------------|
| Bioaccumulative potential | Not bioaccumulative. |

12.4. Mobility in soil

| POTASSIUM HYDROXIDE (1310-58-3) | |
|---------------------------------|---------------------------------------|
| Mobility in soil | No additional information available |
| Ecology - soil | Low potential for adsorption in soil. |

12.5. Other adverse effects

| | |
|-----------------------|---------------------------------------|
| Ozone | : Not classified |
| Other adverse effects | : No additional information available |




SECTION 13: Disposal considerations

13.1. Disposal methods

| | |
|--|---|
| Waste treatment methods | : Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Product/Packaging disposal recommendations | : Do not discharge unmonitored into the environment. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle/reuse. Remove to an authorized dump (Class I). Immobilize the toxic or harmful components. Precipitate/make insoluble. Dilute. Neutralize. |
| Additional information | : Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997. |

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

| SANS | IMDG | IATA |
|---|---|---|
| 14.1. UN number | | |
| 1813 | 1813 | 1813 |
| 14.2. Proper Shipping Name | | |
| POTASSIUM HYDROXIDE, SOLID | POTASSIUM HYDROXIDE, SOLID | Potassium hydroxide, solid |
| 14.3. Transport hazard class(es) | | |
| 8 | 8 | 8 |
|  |  |  Not applicable |
| 14.4. Packing group | | |
| II | II | II |
| 14.5. Environmental hazards | | |
| Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |

POTASSIUM HYDROXIDE

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

| SANS | IMDG | IATA |
|--|------|------|
| | : | |
| No supplementary information available | | |

14.6. Special precautions for user

- SANS

| | |
|---|-----------------------------|
| Transport regulations (UN) | : Subject to the provisions |
| Limited quantities (SANS) | : 1 kg |
| Limited quantities (SANS) | : 1 kg |
| Packagings, large packagings and IBCs | : P002, IBC08 |
| Packing instructions (SANS) | |
| Packagings, large packagings and IBCs Special packing instructions (SANS) | : B2, B4 |
| Portable tank and bulk containers instructions (SANS) | : T3 |
| Portable tank and bulk container special provisions (SANS) | : TP33 |

- IMDG

| | |
|------------------------------------|--|
| Transport regulations (IMDG) | : Subject to the provisions |
| Limited quantities (IMDG) | : 1 kg |
| Excepted quantities (IMDG) | : E2 |
| Packing instructions (IMDG) | : P002 |
| IBC packing instructions (IMDG) | : IBC08 |
| IBC special provisions (IMDG) | : B21, B4 |
| Tank instructions (IMDG) | : T3 |
| Tank special provisions (IMDG) | : TP33 |
| EmS-No. (Fire) | : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE |
| EmS-No. (Spillage) | : S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES |
| Stowage category (IMDG) | : A |
| Properties and observations (IMDG) | : White pellets, flakes, lumps or solid blocks, deliquescent. Reacts with ammonium salts, evolving ammonia gas. In the presence of moisture, corrosive to aluminium, zinc and tin. Causes burns to skin, eyes and mucous membranes. Reacts violently with acids. |

- IATA

| | |
|--|-----------------------------|
| Transport regulations (IATA) | : Subject to the provisions |
| PCA Excepted quantities (IATA) | : E2 |
| PCA Limited quantities (IATA) | : Y844 |
| PCA limited quantity max net quantity (IATA) | : 5kg |
| PCA packing instructions (IATA) | : 859 |
| PCA max net quantity (IATA) | : 15kg |
| CAO packing instructions (IATA) | : 863 |
| CAO max net quantity (IATA) | : 50kg |
| ERG code (IATA) | : 8L |

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

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

| | |
|----------------------|--|
| Regulatory reference | : SANS 10234:2008; SANS 11014:2010; SANS 10228:2012; SANS 10229:2010; SANS 10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National Road Traffic Act 93 of 1996. |
|----------------------|--|

SECTION 16: Other information

| | |
|---------------|--------------|
| Issue date | : 13/02/2020 |
| Revision date | : 13/02/2025 |

Full text of H-statements:

| | |
|------|--|
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |

POTASSIUM HYDROXIDE

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is intended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.