Safety Data Sheet

Issuing Date 23-Jul-2012 **Revision Date** *23-Jul-2012* **Revision Number** *1*

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

Product Name POTASSIUM HYDROXIDE

Product Code(s) BDH9262-2.5KG : BDH9262-500G

Recommended Use For Further Manufacturing Use Only
Not for Human or Animal Drug Use

Synonyms CAUSTIC POTASH * HYDROXYDE DE POTASSIUM (FRENCH) * KALIUMHYDROXID (GERMAN) * KALIUMHYDROXYDE (DUTCH) * LYE * POTASSA * POTASSECAUSTIQUE (FRENCH) * POTASSIO (IDROSSIDO DI) (ITALIAN) * POTASSIUMHYDRATE * POTASSIUM HYDROXIDE (ACGIH) * POTASSIUM HYDROXIDE, SOLID (UN1813) (DOT) * POTASSIUM HYDROXIDE, SOLUTION (UN1814) (DOT) * POTASSIUM (HYDROXYDE DE) (FRENCH) * UN1813 (DOT) * UN1814 (DOT) *

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Manufacturer, Importer, Supplier
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Company Phone Number 1-800-932-5000
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2. HAZARDS IDENTIFICATION

GHS - Classification

Classification Acute Toxicity Oral 4 Skin Corrosion 1A

Signal Word Danger

Hazard Statements H302 - Harmful if swallowed H314 - Causes severe skin burns and eye damage

Precautionary Statements P280 - Wear protective gloves/protective clothing/eye protection/face protection P302+ P352 - IF ON SKIN: Wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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 CENTRE or doctor/physician

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No	Weight %	Classification
Potassium hydroxide	EEC No. 215-181-3	Not available	1310-58-3	95-100	Xn; R22 C; R35

4. FIRST AID MEASURES

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Call a physician immediately.

Inhalation Move to fresh air. If breathing becomes difficult, give oxygen.

Ingestion Clean mouth with water and afterwards drink plenty of water. Consult a physician.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties Not flammable.

Flash Point Not determined

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Hazardous Combustion Products Carbon oxides, Contact with metals may evolve flammable hydrogen gas.

Explosion Data

Sensitivity to Mechanical Impact Not sensitive.

Sensitivity to Static Discharge Not sensitive.

Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Avoid contact with skin, eyes and clothing. Use personal protective equipment. Ensure adequate ventilation.

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling Handle in accordance with good industrial hygiene and safety practice. Hygroscopic. Never add water to this material, always add material to water.

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Hygroscopic.

Incompatible Products Acids. Aluminium. Chlorinated solvents. Nitro compounds. Organic materials. Acid chlorides. Anhydrides. Magnesium. Copper. Tin /Tin oxides. Zinc.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium hydroxide 1310-58-3			Ceiling: 2 mg/m³

Engineering Measures Showers
Eyewash stations
Ventilation systems.

Personal Protective Equipment

Eye/Face Protection Tightly fitting safety goggles.

Skin and Body Protection Wear protective gloves/clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White
Odor	No information available
Odor Threshold	No information available
Decomposition Temperature °C	No information available
Freezing Point	No information available
Initial Boiling Point	No information available
Physical State	Solid Pellets
pH	(in aqueous solution) 13.5
Flash Point	Not determined
Autoignition Temperature	No data available
Boiling Point/Range	No data available
Melting Point/Range	361 °C
Flammability Limits in Air	**Upper** No data available **Lower** No data available
Explosive Properties	No information available
Oxidizing Properties	No information available
Evaporation Rate	No data available
MMHG @ 37.8 C	No data available
Vapor Density	No data available
Specific Gravity	2.044
Solubility	No information available
Water Solubility	Exothermic Very soluble in water
Partition Coefficient (n-octanol/water)	No data available
Viscosity	No information available
Molecular Weight	56.11

10. STABILITY AND REACTIVITY

Stability Stable under recommended storage conditions.

Incompatible Products Acids. Aluminium. Chlorinated solvents. Nitro compounds. Organic materials. Acid chlorides. Anhydrides. Magnesium. Copper. Tin /Tin oxides. Zinc.

Conditions to Avoid Protect from moisture.

Hazardous Decomposition Products Carbon oxides. Hydrogen gas.

Hazardous Polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information Corrosive, causes burns. Toxic if swallowed.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Potassium hydroxide	214 mg/kg (Rat)		

Chronic Toxicity

Chronic Toxicity No known effect based on information supplied.

Target Organ Effects None known.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Harmful to aquatic organisms.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Potassium hydroxide		LC50= 80 mg/L Gambusia affinis 96 h		

Chemical Name	Log Pow
Potassium hydroxide	= 0.65 = 0.83

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging Dispose of in accordance with all federal, state and local regulations.

14. TRANSPORT INFORMATION

IATA

UN-No	1813
Proper Shipping Name	Potassium Hydroxide Solid
Hazard Class	8
Packing Group	II

DOT

Proper Shipping Name	Potassium Hydroxide Solid
Hazard Class	8
UN-No	1813
Packing Group	II

15. REGULATORY INFORMATION

REACH Title VII Restrictions No information available.

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on the Label	Pollution Release and Transfer Registry (Class II):	Pollution Release and Transfer Registry (Class I):	Poison and Deleterious Substances Control Law:
Potassium hydroxide	>=>=1 % weight	Not applicable	Not applicable	Not applicable	Not applicable	Deleterious

Component	ISHA - Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA - Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) - Toxic Chemicals	Toxic Release Inventory (TRI) - Group I	Toxic Release Inventory (TRI) - Group II
Potassium hydroxide 1310-58-3 (95-100)	Not applicable	Not applicable	97-1-137, 5 % or more in mixtures	Not applicable	>= 1.0 %

International Inventories

TSCA	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Does not Comply
PICCS	Complies
AICS	Complies

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium hydroxide 1310-58-3 (95-100)	1000 lb			X

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Potassium hydroxide	1000 lb	

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Potassium hydroxide	X	X	X		X

International Regulations

Mexico - Grade No information available.

Canada

WHMIS Hazard Class
D1B Toxic materials
E Corrosive material

16. OTHER INFORMATION

Issuing Date 23-Jul-2012

Revision Date 23-Jul-2012

Revision Note
No information available

Recommended Restrictions No information available

Disclaimer
The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information 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.

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