

POTASSIUM HYDROXIDE SOLUTION

Date Issued: 07/25/2016

Revision #: 2

SAFETY DATA SHEET

REV. 2 Issued: July 25, 2016

This SDS adheres to the standards and regulatory requirements of Canada and may not meet the regulatory requirements in other countries.

1. IDENTIFICATION

Product identifier Potassium Hydroxide Solution

Other means of identification

Synonyms Caustic Potash Solution, KOH, Potash Lye, Lye, Lye solution

Product Family Aqueous Alkali Metal Hydroxide

Recommended use Saponification of fats; manufacture of biodiesel, soft soaps, fine

chemicals, fertilizers, electrolyte for batteries.

Recommended restrictions None known

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name ERCO Worldwide, A division of Superior Plus LP

Address 302 The East Mall

Suite 200

Toronto, ON M9B 6C7

Canada

Telephone Information #: (416) 239-7111 (Monday-Friday 8:00 am – 5:00pm EST)

Website http://www.ercoworldwide.com
E-mail productinfo@ercoworldwide.com

Emergency phone number 24 Hr. #: Canada: 613-996-6666 (CANUTEC)

USA: 1-800-424-9300 (CHEMTREC)

Supplier Refer to Manufacturer

2. HAZARD(S) IDENTIFICATION

Physical hazardsCorrosive to metalsCategory 1Health hazardsAcute toxicity, oralCategory 3Skin corrosion/irritationCategory 1ASerious eye damage/eye irritationCategory 1

Specific target organ toxicity, Category 3 respiratory tract

single exposure irritation

Environmental hazards Not currently regulated by the Canadian Hazardous Products

Regulation (WHMIS 2015), refer to Section 12 for additional

information.

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Label elements



Signal word Danger

Hazard statement May be corrosive to metals.

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause respiratory irritation.

Precautionary statement

Prevention Do not breathe mist. Wash thoroughly after handling. Do not eat, drink

or smoke when using this product. Wear protective gloves/clothing and

eye/face protection.

Response IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for

breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Wash

contaminated clothing before reuse. Absorb spillage to prevent material

damage.

Storage Store in a well-ventilated place. Keep container tightly closed. Store

locked up. Store in corrosive resistant container with a resistant inner

liner.

Disposal Dispose of contents/container in accordance with

local/regional/national/international regulations.

Hazard(s) not otherwise classified

(HNOC)

No OSHA defined hazard classes.

Other hazards which do not result in classification: Contact with most metals will generate flammable hydrogen gas. Contact with water will generate considerable heat. Reacts vigorously or violently with many organic and inorganic chemicals such as: acids, acrolein, acrylonitrile,

chlorinated hydrocarbons (e.g. 1,2 dichloroethylene), chlorine dioxide, maleic anhydride, nitroethane, nitroparaffins, 2-nitrophenol,

nitropropane, phosphorus, potassium persulfate, and tetrahydrofuran (containing peroxides). Chronic skin contact with low concentrations

may cause dermatitis.

Supplemental information Not applicable.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Potassium Hydroxide	Caustic Potash	1310-58-3	50 or less
	Lye		
	Potash		
	Potash Lye		
Water	Dihydrogen oxide	7732-18-5	50 or less

Chemical name of impurities, stabilizing solvents and/or additives: None

4. FIRST-AID MEASURES

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist. If breathing is difficult, give oxygen. If breathing stops, give artificial respiration.

Skin contact

Take off immediately all contaminated clothing. Immediately flush skin with running water for at least 20 minutes. Cover wound with sterile dressing. Do not rub area of contact. Wash contaminated clothing before reuse. Leather and shoes that have been contaminated with the solution may need to be destroyed. Call a physician or poison control center immediately.

Eye contact

Immediately flush eyes, by holding the eyelids apart, with plenty of water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take care not to rinse contaminated water into the unaffected eye or onto the face. Call a physician or Poison Control Center immediately.

Ingestion

If swallowed: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to a victim who is unconscious or is having convulsions. Have a conscious person drink a glass of water or milk immediately if able to swallow. Call a physician or poison control center immediately.

Most important symptoms/effects, acute and delayed

Inhalation of mists can cause severe respiratory irritation. Symptoms may include coughing, choking and wheezing. Inhalation could result in pulmonary edema (fluid accumulation).

Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. Corrosive to the eyes and may cause

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severe damage including blindness. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May be harmful or fatal if swallowed. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding and eventually death.

Indication of immediate medical attention and special treatment needed

Immediate medical attention is required. Causes chemical burns. May be harmful or fatal if swallowed. Symptoms may be delayed. Probable mucosal damage may contraindicate the use of gastric lavage.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use as appropriate: Water Spray or Fog. Alcohol resistant foam. Dry chemical powder. Use water with caution. Contact with water will generate considerable heat and cause spattering if applied directly to potassium hydroxide.

Unsuitable extinguishing media

Carbon dioxide (CO₂).

Use chemical extinguishing agents with caution. Some chemical extinguishing agents may react with this material.

Specific hazards arising from the chemical

Not considered flammable. Contact with most metals will generate flammable hydrogen gas. Contact with water will generate considerable heat. The heat that is generated may be sufficient enough to ignite nearby combustible materials. Reacts vigorously or violently with many organic and inorganic chemicals such as: acids, acrolein, acrylonitrile, chlorinated hydrocarbons (e.g. 1,2 dichloroethylene), chlorine dioxide, maleic anhydride, nitroethane, nitroparaffins, 2-nitrophenol, nitropropane, phosphorus, potassium persulfate, and tetrahydrofuran (containing peroxides). Toxic fumes, gases or vapours may evolve on burning.

Special protective equipment and precautions for firefighters

Potassium hydroxide solid and solutions are very corrosive and at high temperatures decomposition occurs giving off strong, corrosive fumes of potassium oxide. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. A full-body chemical resistant suit should be worn. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. Chemical protective clothing (e.g. chemical splash suit) and positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

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Fire-fighting equipment/instructions

Fight fire with normal precautions from a reasonable distance. Evacuate the area promptly. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Do not allow run-off from firefighting to enter drains or water courses. Dike for water control. Water must be used with extreme caution to extinguish a fire in an area where potassium hydroxide is stored and must not come into contact with the potassium hydroxide. Potassium hydroxide does not burn and does not support combustion. However, closed containers may rupture violently when exposed to the heat of the fire. If possible, isolate materials not yet involved in the fire and move containers from the fire area if this can be done without risk and they have not been exposed to heat. If it is not possible to move containers, apply water in flooding quantities from the side and from a safe distance, to keep fire-exposed containers, tanks or car/trailer loads cool and absorb heat to help prevent rupture, and protect personnel. If necessary, use unmanned monitors and hose holders to keep cooling streams of water on fire-exposed tanks or containers until well after the fire is out. Water spray may also be used to knock down corrosive and toxic fumes and vapours which may be produced in a fire. Fire control or dilution water may be corrosive and/or toxic. Dike fire control water for appropriate disposal. Withdraw immediately in case of rising sound from venting safety device or any discolouration of tank. ALWAYS stay away from the ends of tanks, but be aware that flying material (shrapnel) from ruptured tanks may travel in any direction. Tanks or drums should not be approached directly after they have been involved in a fire, until they have been completely cooled down.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

Hazardous combustion products

None known. In the event of fire the following can be released: Potassium oxides.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Ventilate the area. Remove sources of ignition. Stop leak if you can do so without risk. Absorb spillage to prevent material damage. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use water spray to reduce vapors or divert vapor cloud drift.

Small Spills: Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Dilute alkali with water and neutralize with acids (e.g. acetic acid / vinegar).

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Large Spills: Prevent entry into waterways, sewer, basements or confined areas. If not recoverable, dilute with water or flush to holding area and neutralize. Remove with vacuum trucks or pump to storage/salvage vessels. Contact the proper local authorities.

Never return spills to original containers for re-use. Contaminated absorbent material may pose the same hazards as the spilled product. For waste disposal, see Section 13.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear chemically resistant protective equipment during handling. Wear protective gloves/clothing and eye/face protection. Do not breathe mist. Do not taste or swallow. Avoid contact with eyes, skin and clothing. Keep away from heat. Keep away from metals and other incompatibles. When preparing or diluting solution, always add to water, slowly and with stirring. Use cold water to prevent excessive heat generation. Never add water to the product. Label containers appropriately. Wash thoroughly after handling. When using, do not eat, drink or smoke. Avoid release to the environment. Any protective clothing or shoes which become contaminated with caustic potash should be removed immediately and thoroughly laundered before any reuse.

When diluting with water, slowly add caustic potash solution to cold water with mixing. Heat will be produced during dilution. Full protective clothing, goggles and face shield should be worn. Do not add large quantities of water to caustic potash because excessive heat formation will cause boiling and spattering.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Store away from incompatible materials (see Section 10 of the SDS). Store in original tightly closed container. Store in corrosive resistant container with a resistant inner liner. Suitable container and packaging materials for safe storage: Polyvinyl chloride (PVC). Polypropylene. Polytetrafluoroethylene (PTFE). Mild steel may be used if the storage temperature does not exceed 50°C (122°F). For temperatures above 50°C (122°F), materials such as nickel or lined steel may be required.

Contact of caustic potash cleaning solutions with food and beverage products (in enclosed vessels or spaces) can produce lethal concentrations of carbon monoxide gas. Do not enter confined spaces such as tanks or pits without following proper entry procedures.

Aluminum equipment should not be used for storage and/or transfer.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	
Potassium Hydroxide (CAS 1310-58-3)	Ceiling	2 mg/m ³	
US. NIOSH: Pocket Guide to Chemical Ha	ızards		
US. NIOSH: Pocket Guide to Chemical Ha	nzards Type	Value	

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Safety shower and eyewash station must be provided in the immediate work area.

Eye/face protection

Wear eye/face protection. Chemical goggles and face shield are recommended. A full face respirator, in place of goggles and a face shield, will also provide excellent face protection.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Wear as appropriate: Butyl rubber. Neoprene. Nitrile, Polyvinyl chloride (PVC), Viton rubber (fluor rubber). Advice should be sought from glove suppliers.

Other

Where contact is likely, wear chemical-resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH/MSHA approved air-purifying respirator with the appropriate chemical cartridges or a positive-pressure, air-supplied respirator may be used to reduce exposure. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. Respirators should be selected based on

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the form and concentration of contaminants in air. Advice should be sought from respiratory protection specialists.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Do not breathe mist. Avoid contact with eyes, skin and clothing. When using, do not eat, drink or smoke. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear to white/light gray, viscous liquid

Physical state Liquid

Form Viscous liquid

Color Clear to white/light gray

Odor Odorless.
Odor threshold Not Available

pH > 14 (at high alkali concentration in water pH scale is not applicable)

Melting point/freezing point 4 °C (39.2 °F) (50% solution)

-30 °C (-22 °F) (45% solution)

Initial boiling point and boiling range 132 °C (269.6 °F) (45% solution)

143 °C (289.4 °F) (50% solution)

Flash point Not Applicable (does not burn)

Evaporation rate Not Available Flammability (solid, gas) Not Applicable

Upper/lower flammability or explosive limits

Flammability limit – lower (%) Not Applicable
Flammability limit – upper (%) Not Applicable
Explosive limit - lower (%) Not Available
Explosive limit - upper (%) Not Available

Vapor pressure 27 mm Hg @ 60°C / 140°F (50% solution)

39 mm Hg @ 60°C / 140°F (45% solution)

Vapor density Not available

Relative density $1.457 \text{ g/cm}^3 \otimes 15.6^{\circ}\text{C} / 60^{\circ}\text{F} (45\% \text{ solution})$

1.516 g/cm³ @ 15.6°C / 60°F (50% solution)

Solubility(ies)

Solubility (water) Soluble in all proportions.

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Solubility (other) Soluble in ethanol, methanol and glycerol. Insoluble in diethyl ether and

ammonia.

Partition coefficient (n-octanol/water) Not Available
Auto-ignition temperature Not Applicable
Decomposition temperature Not Available

Viscosity 5.25 cSt @ 20°C / 68°F (50% solution)

Other information

Solubility (other) Soluble in ethanol, methanol and glycerol. Insoluble in diethyl ether and

ammonia.

Specific gravity 1.46 @ 15.6°C / 60°F (45% solution)

1.52 @ 15.6°C / 60°F (50% solution)

10.STABILITY AND REACTIVITY

Reactivity

Contact with most metals will generate flammable hydrogen gas. Contact with water will generate considerable heat. May be corrosive to metals. May be corrosive to: Aluminum. Bronze. Brass. Zinc.

Chemical stability

Material is stable under normal conditions. Rapidly absorbs moisture and carbon dioxide from the air forming potassium carbonate.

Possibility of hazardous reactions

Reacts vigorously or violently with many organic and inorganic chemicals such as: acids, acrolein, acrylonitrile, chlorinated hydrocarbons (e.g. 1,2 dichloroethylene, trichloroethylene), chlorine dioxide, maleic anhydride, nitroethane, nitroparaffins, 2-nitrophenol, nitropropane, phosphorus, potassium persulfate, and tetrahydrofuran (containing peroxides). Attacks plastics, such as polyethylene terephthalate, polybutylene terephthalate, thermoset polyesters (bisphenol-A fumarate (50-100%), isophthalic acid and general purpose), polyamide-imide (Torlon), polyurethane (riged) and thermoset chlorinated polyester; elastomers, such as styrene-butadiene (SBR), polyacrylate, polyurethane, fluorosilicone, silicone, chlorinated polyethylene and soft rubber; and coatings, such as polyester and vinyls (5-100%) and epoxy (general purpose and chemical resistant epoxy) (50-100%) at room temperature.

Conditions to avoid

Contact with incompatible materials. Avoid high temperatures. Do not use in areas without adequate ventilation

Incompatible materials

Metals. Water, moisture. Acrolein. Acrylonitrile. Chlorinated hydrocarbons. Chlorine dioxide. Maleic anhydride. Nitroethane. Nitroparaffins. Nitropropane. 2-nitrophenol. Phosphorus. Potassium persulfate. Tetrahydrofuran.

Hazardous decomposition products

None known. In the event of fire the following can be released: Potassium oxides.

11.TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation

May cause severe irritation to the nose, throat, and respiratory tract. Breathing of mist is possible. Breathing this material is harmful and can cause death.

Skin contact

Contact with the skin can cause severe burns with deep ulcerations. Contact with solution or mist can cause multiple burns with temporary loss of hair at burn site. Solutions may not cause immediate pain or irritation upon skin contact. Prolonged or repeated contact with dilute solutions may cause drying and cracking of skin and possible skin damage.

Eye contact

Causes burns, serious eye damage and permanent injury to eye tissue. Can cause blindness. Mist or dust can cause irritation with high concentrations causing destructive burns.

Ingestion

Swallowing this material may be harmful or cause death. Harmful effects include burns and permanent damage to the digestive tract, including the mouth, throat, stomach and intestines. Symptoms may include severe abdominal pain and vomiting of blood. Blood loss through damaged tissue can lead to low blood pressure and shock. Death can result from ingestion. There is one reported case of biaural hearing loss after accidental ingestion of potassium hydroxide.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation of mists can cause severe respiratory irritation. Symptoms may include coughing, choking and wheezing.

Symptoms of pulmonary edema (chest pain, shortness of breath) may be delayed. May cause severe irritation and corrosive damage in the mouth, throat and stomach. Symptoms may include abdominal pain, vomiting, burns, perforations, bleeding and eventually death. Direct skin contact may cause corrosive skin burns, deep ulcerations and possibly permanent scarring. Corrosive to the eyes and may cause severe damage including blindness. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Delayed and immediate effects and chronic effects from short-term and long-term exposure

Effects of short-term (acute) exposure: Depending upon level and duration of exposure, other possible signs and symptoms from breathing, swallowing, and contact of this material with the skin may include: irritation of the nose, throat, airways, and lungs with cough, sneezing, perforation of the nasal septum, and blindness.

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Preexisting disorders of the following organs or systems which may be aggravated by exposure to this material (or a component) include: respiratory system (including asthma and other breathing disorders), and eyes.

Effects of long-term (chronic) exposure: This material may cause the following effects: eye damage, blindness, respiratory tract damage (nose, throat, airways) lung damage, skin damage, and gastrointestinal tract damage.

Information on toxicological effects

Acute toxicity

Harmful if swallowed.

The below product data is the calculated ATE values for this mixture. Individual ingredient component data appears below the product mixture ATE values.

Components	Species	Test Results		
Potassium Hydroxide (CAS 1310 58-3)				
Acute				
Dermal				
LD50	Rabbit	> 1260 mg/kg		
Inhalation				
LC50		No Data in Literature		
Oral				
LD50	Rat	205 mg/kg		
Water (CAS 7732-18-5)				
Acute				
Dermal				
LD50	Rabbit	Not available.		
Inhalation				
LC50	Rat	Not available.		
Oral				
LD50	Rat	> 89840 mg/kg		

Skin corrosion/irritation

Category 1A. Causes severe skin burns.

Serious eye damage/eye irritation

Category 1. Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization

Not expected to be a respiratory sensitizer.

Skin sensitizer

This product is not expected to be a skin sensitizer.

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Germ cell mutagenicity

Not expected to be mutagenic in humans.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure

Category 3. May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

Not classified as a specific target organ toxicity -repeated exposure.

Aspiration toxicity

This product is not classified as an aspiration hazard.

Chronic effects

Chronic skin contact with low concentrations may cause dermatitis act.

12.ECOLOGICAL INFORMATION

Ecotoxicity

Because of the high pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems. However, may be neutralized by naturally occurring acidity in the environment. The ingredient ecotoxicity data appearing below is expected to be primarily associated with ph.

Components		Species	Test Results
Potassium Hydroxide (CAS	S 1310-58-3)		
Aquatic			
Acute			
Crustacea	EC50	Water flea (Ceriodaphnia dubia)	56 mg/l, 48 hours
Fish	LC50	Western mosquitofish (Gambusia affinis)	80 mg/l, 96 hours

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Persistence and degradability

No data is available on the degradability of this product. Biodegradation is not applicable to inorganic substances. Potassium hydroxide will be neutralized by acidity present in natural environment.

Bioaccumulative potential

No accumulation in living organisms is expected due to high solubility and dissociation properties.

Mobility in soil

High water solubility indicates a high mobility in soil.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13.DISPOSAL CONSIDERATIONS

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14.TRANSPORT INFORMATION

TDG

Shipping Name (TDGR) UN Number Hazard Class Packing Group

Potassium Hydroxide, Solution UN 1814 8 II

IATA

UN number UN1814

UN proper shipping name Potassium hydroxide solution

Transport hazard class(es)

Class 8
Subsidiary risk None
Packing group II
Environmental hazards No
ERG Code 8L

Special precautions for user Read safety instructions, SDS and emergency procedures before

handling.

Other information

Passenger and cargo aircraft Allowed Cargo aircraft only Allowed

IMDG

UN number UN1814

UN proper shipping name Potassium hydroxide solution

Transport hazard class(es)

Class 8
Subsidiary risk None
Packing group II

Environmental hazards

Marine pollutant No. EmS F-A, S-B

Special precautions for user Read safety instructions, SDS and emergency procedures before

handling.

Transport in bulk according toRead safety instructions, SDS and emergency procedures before

Annex II of MARPOL 73/78 and handling.
the IBC Code Not available.





15.REGULATORY INFORMATION

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical	Yes
	Substances (AICS)	
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical	Yes
	Substances in China (IECSC)	
Europe	European Inventory of Existing	Yes
	Commercial Chemical Substances	
	(EINECS)	
Europe	European List of Notified Chemical	No
	Substances (ELINCS)	
Japan	Inventory of Existing and New Chemical	Yes
	Substances (ENCS)	
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and	YES
	Chemical Substances (PICCS)	
United States & Puerto Rico	Toxic Substances Control Act (TSCA)	Yes
	Inventory	

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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16.OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST VERSION

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Revision Indicator New safety data sheet.

List of abbreviations ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services CFR: Code of Federal Regulations DSL: Domestic Substance List

EINECS: European Inventory of Existing Commercial chemical

Substances

EPA: Environmental Protection Agency HSDB® - Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer IATA: International Air Transport Association

IBC: Intermediate Bulk Container

IMDG: International Maritime Dangerous Goods LC: Lethal

Concentration LD: Lethal Dose

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

OECD: Organization for Economic Cooperation and Development

OSHA: Occupational Safety and Health Administration

PPE: Personal Protective Equipment

RTECS: Registry of Toxic Effects of Chemical Substances

SDS: Safety Data Sheet

TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Information System

References ACGIH Documentation of the Threshold Limit Values and Biological

Exposure Indices (2014) Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2014 (Chempendium, RTECs, HSDB,

INCHEM)

Material Safety Data Sheet from manufacturer.

OECD - The Global Portal to Information on Chemical Substances -

eChemPortal, 2014.

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Disclaimer

Information presented in this SDS is furnished in accordance with the Workplace Hazardous Materials Information System (WHMIS).

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