

HALL CHEM MFG. INC.1270 rue Nobel
Boucherville Qc J4B 5H1

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MATERIAL SAFETY DATA SHEET**URGENCE : CANUTEC (613) 996-6666****MSDS : 3050-2****PRODUCT IDENTIFICATION AND USE****NAME OF PRODUCT :** Parts cleaned ECO**USE OF PRODUCT :** cleaner and degreaser**TRANSPORTATION OF DANGEROUS GOODS****SHIPPING NAME :****P.N.I. :** UN 1814
PACKING GROUP : II**PRIMARY CLASS :** 8
SUBSIDIARY CLASS :**COMPONENTS**

COMPOSITION	% V/V	CASE #	LD ₅₀ mg/kg Oral/rat	LC ₅₀	TLV ppm 8h
Potassium hydroxide	2 to 15	1310-58-3	273		2 mg/m ³

PHYSICAL CHARACTERISTICS

PHYSICAL STATE : liquid	APPEARANCE : Clear to yellowish	ODOR : odorless	ODORTRESHOLD : Not available
VAPOR TENSION : 2 mm Hg at 20°C	VAPOR DENSITY : Not available	EVAPORATING RATE : Not available	
BOILING RANGE : 101°C	FREEZING POINT : -1C	pH : 12.34	
DENSITY (kg/m³, water = 1 at 4°C) : 1.08-1.18	DISTRIBUTION FACTOR WATER/OIL : Not available	SOLUBILITY IN WATER (25°C) : 100%	

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MATERIAL SAFETY DATA SHEET**URGENCE : CANUTEC (613) 996-6666****REACTIVITY DATA****CHEMICAL STABILITY :** stable under normal conditions**INCOMPATIBILITY WITH OTHER PRODUCTS :** Avoid strong acids and reactive metals.**REACTIVITY CONDITIONS :** No hazardous polymerization.**EXPLOSION AND FIRE RISKS****FLAMMABILITY :****EXTINGUISHING METHODS :** Use appropriate media to extinguish surrounding fire and/or materials.**FLASH POINT :** non-flammable**AUTO-IGNITION TEMPS. :** Not available**FLAMMABILITY (% per volume)****SUPERIOR LIMIT :** Not available**LOWER LIMIT :** Not available**HAZARDOUS COMBUSTION PRODUCT :** Not available**EXPLOSIBILITY DATA :** Not available**TOXICOLOGICAL PROPERTIES**

ABSORPTION WAYS			CONTACT						
SKIN	√	INHALATION	√	INGESTION	√	WITH SKIN	√	EYES	√

EFFECTS OF EXPOSURE TO PRODUCT : Product can irritate mucus glands. High doses can provoke headaches, drowsiness, nausea, dizziness and fainting. Inhalation may aggravate cases of emphysema and bronchitis. Repeated contact with skin provokes irritations, dryness of the skin and cracking of the skin.**PREVENTIVE MEASURES****PROTECTIVE EQUIPMENT :** Gloves, security glasses and protective apron.**GLOVES :** rubber, nitrile, neoprene, PVC**RESPIRATORY SYSTEM :** A NOISH/MSHA-approved air-purifying respirator equipped with dust, mist, fume cartridges for concentration sup to 20 mg/m³ potassium hydroxide. An air-supplier respirator if concentrations are higher of unknown.**OCULAR INSTRUMENT :** chemical safety goggles**CLOTHING :** rubber, vinyl, neoprene apron**TECHNICAL CONTROL :** Good general area ventilation.

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PROCEDURE IN CASE OF LEAKS/SPILLS : Stop and contain leak or spill, ventilate area. Protective equipment must be worn. Dyke with inert material (sand, earth, etc.). Pump into plastic containers for reclaim or disposal.

HANDLING : Solutions should be stored in a cool area, above their freezing point. Protect containers against physical damage.

WASTE DISPOSAL : Consult federal, provincial, state and local regulations on chemical waste disposal. May e possible to neutralize (see above), diluted, flushed and dispersed.

STORAGE :

FIRST AID

SKIN : Flush skin with running water fir a minimum of 20 minutes or up to 30 minutes for critical body areas. If irritation persists, repeat flushing.

EYES : Immediately flush eyes with running water for a minimum of 20 minutes. Preferably up to 30 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention.

INHALATION : Move victim to fresh air. Give artificial respiration **ONLY** if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing and no pulse. Oxygen administration may be beneficial in this situation but should only be administrated by personnel trained in its use. Obtain medical attention immediately.

INGESTION : If victim is alert and not convulsing. Rinse out mouth and give ½ to 1 glass of water to dilute material. Do not induce vomiting. If spontaneous vomiting occurs. Have victim lean forward with head down to avoid breathing in of vomit, rinse mouth and administer more water. Immediately transport victim to an emergency facility.

NOTES TO PHYSICIAN : Potassium hydroxide eye burns often go through three stages – an acute stage when early damage is experienced, a reparation stage when the eye begins to heal, and a stage of late complications when a relapse may occur with more severe damage. Follow up care is essential.

INFORMATION ON THE M.S.D.S. PREPARATION

PREPARED BY :
Hall Chem Mfg. Inc.

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REVISED Jan. 2015

NOTE :

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