



CANWAX  
 114 Lindgren Rd. W Unit 1B  
 Huntsville, ON  
 P1H 1Y2  
 705-789-1002



**PRODUCT: POTASSIUM HYDROXIDE 90% FLAKE**

**SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

MANUFACTURERS..... SUPPLIED BY:  
 Canwax  
 114 Lindgren Rd W Unit 1B  
 Huntsville, ON P1H 1Y2  
 705-789-1002  
 www.canwax.com

PRODUCT NAME..... POTASSIUM HYDROXIDE 90% FLAKE  
 CHEMICAL NAME..... POTASSIUM HYDROXIDE.  
 CHEMICAL FAMILY..... ALKALI HYDROXIDE.  
 CHEMICAL FORMULA..... KOH.  
 MOLECULAR WEIGHT..... 56.11.  
 MATERIAL USE..... DETERGENT/CLEANING COMPOUND PREPARATIONS. INSECTICIDE/HERBICIDE RAW MATERIAL. ORGANIC SYNTHESIS.  
 24 HOUR EMERGENCY PHONE NUMBER: CANUTEC (613) 996-6666.

**SECTION 02: HAZARDS IDENTIFICATION**



HAZARD CLASSIFICATION..... NOT ASSESSED.  
 SIGNAL WORD..... NOT ASSESSED.  
 HAZARD STATEMENT..... NOT ASSESSED.  
 PRECAUTIONARY STATEMENT..... NOT ASSESSED.  
 OTHER HAZARDS..... NOT ASSESSED.

**SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENTS	CAS #	WT. %
POTASSIUM HYDROXIDE	1310-58-3	60-100

**SECTION 04: FIRST AID MEASURES**

SKIN..... IMMEDIATELY REMOVE CONTAMINATED CLOTHING AND FLUSH SKIN WITH RUNNING WATER FOR AT LEAST 15 MINUTES. WASH SKIN WITH SOAP AND WATER. LAUNDRER CLOTHES BEFORE REUSE. SEEK MEDICAL ATTENTION.

EYE..... FLUSH CONTINUOUSLY WITH WATER FOR 15 MINUTES. FORCIBLY HOLD EYELIDS APART TO ENSURE IRRIGATION OF ALL EYE TISSUE. IF IRRITATION PERSISTS GET MEDICAL ATTENTION.

INHALATION..... REMOVE VICTIM TO FRESH AIR; SEEK MEDICAL ATTENTION IMMEDIATELY.

INGESTION..... IF CONSCIOUS: HAVE VICTIM RINSE MOUTH THOROUGHLY WITH WATER. DO NOT INDUCE VOMITING. GIVE A SMALL AMOUNT (250 - 300 ml) OF WATER. IF VOMITING OCCURS NATURALLY, HAVE VICTIM LEAN FORWARD TO REDUCE RISK OF ASPIRATION. REPEAT ADMINISTRATION OF WATER. IF INGESTION OF A LARGE AMOUNT DOES OCCUR SEEK MEDICAL ATTENTION. IF UNCONSCIOUS: IF INGESTION OF A LARGE AMOUNT DOES OCCUR SEEK MEDICAL ATTENTION.

NOTES TO PHYSICIAN:..... THERE IS NO SPECIFIC ANTIDOTE. TREATMENT OF EXPOSURE SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS AND THE CLINICAL CONDITION OF THE PATIENT.

**PRODUCT: POTASSIUM HYDROXIDE 90% FLAKE**

GENERAL ADVICE:..... PRECAUTIONS SHOULD ALWAYS BE TAKEN TO AVOID SKIN/EYE CONTACT WITH ANY CHEMICAL SUBSTANCE. AVOID HIGH LEVELS OF DUST, USE DUST MASK OR RESPIRATOR WHEN NECESSARY.

**SECTION 05: FIRE FIGHTING MEASURES**

MEANS OF EXTINCTION:..... USE MEDIA APPROPRIATE TO THE PRIMARY SOURCE OF THE FIRE.  
HAZARDOUS COMBUSTION PRODUCTS: NONE. FLAMMABLE LIMITS IN AIR

**SECTION 05: FIRE FIGHTING MEASURES**

IF YES, UNDER WHICH CONDITIONS?..... POTASSIUM AND ITS SOLUTIONS WILL NOT BURN OR SUPPORT COMBUSTION. HOWEVER, REACTION OF POTASSIUM HYDROXIDE WITH A NUMBER OF COMMONLY ENCOUNTERED (SEE CHEMICAL ACTIVITY) CAN GENERATE SUFFICIENT HEAT TO IGNITE NEARBY COMBUSTIBLE MATERIALS. REACTION OF POTASSIUM HYDROXIDE WITH CERTAIN METALS CAN GENERATE FLAMMABLE AND EXPLOSIVE HYDROGEN GAS.

T.D.G. FLAMMABLE CLASS:..... CLASS 8, CORROSIVE LIQUIDS.

SPECIAL PROCEDURES:..... SELF-CONTAINED, POSITIVE PRESSURE BREATHING APPARATUS AND PROPER PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING FIRES INVOLVING ANY CHEMICAL SUBSTANCE.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

CLEAN-UP PROCEDURES, LEAK/SPILL:.... EVACUATE ALL NON-ESSENTIAL PERSONNEL. WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY RUBBER GLOVES. VENTILATE AREA. CONTAIN ANY SPILLED MATERIAL TO PREVENT DISCHARGE INTO THE ENVIRONMENT. SPILLED SOLUTION SHOULD BE DIKED WITH INERT MATERIALS, SUCH AS SAND OR EARTH. SOLUTIONS CAN BE RECOVERED OR CAREFULLY DILUTED WITH WATER AND CAUSTIOUSLY NEUTRALIZED WITH ACIDS SUCH AS ACETIC OR HYDROCHLORIC ACID.

**SECTION 07: HANDLING AND STORAGE**

HANDLING PROCEDURES AND ..... AVOID INGESTION. AVOID ALL EYE AND SKIN CONTACT. AVOID CHRONIC EQUIPMENT: INHALATION OF DUST.

STORAGE NEEDS:..... KEEP CONTAINER CLOSED WHEN NOT IN USE. STORE IN A COOL AND DRY PLACE, FOR PRODUCT INTEGRITY. STORE AWAY FROM ALL INCOMPATIBLE MATERIALS (see section 10).

SPECIAL SHIPPING INSTRUCTIONS..... DO NOT SHIP WITH INCOMPATIBLE MATERIALS (see section 5). PRESENT APPROPRIATE PLACARDS WHEN APPLICABLE, BE SURE DOCUMENTATION IS CORRECT, AND EACH CONTAINER HAS THE PROPER SAFETY MARKS AFFIXED. PROTECT AGAINST PHYSICAL DAMAGE. USE PRECAUTION WHEN HANDLING OR SHIPPING ANY CHEMICAL SUBSTANCE.

**SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION**

INGREDIENTS	ACGIH TLV		OSHA PEL		NIOSH
	TWA	STEL	PEL	STEL	
POTASSIUM HYDROXIDE	2 mg/m3 (ceiling) A				:GIH
EXPOSURE LIMIT OF MATERIAL:.....	15 MINUTE AVERAGE CONTAMINATION LIMIT = 2 mg/m3. 8 HOUR AVERAGE CONTAMINATION LIMIT = 2 mg/m3.				
PROTECTIVE EQUIPMENT:					
GLOVES/TYPE:.....	WEAR IMPERVIOUS GLOVES (E.G. NEOPRENE, RUBBER).				
RESPIRATOR/TYPE:.....	DUST MASK OR RESPIRATOR REQUIRED.				
EYE/TYPE:.....	SAFETY GLASSES WITH SIDE-SHIELDS.				
FOOTWEAR/TYPE:.....	RUBBER BOOTS, WORN INSIDE THE PANTS FOR FOOT PROTECTION.				
CLOTHING/TYPE:.....	WEAR ADEQUATE PROTECTIVE CLOTHES.				
OTHER/TYPE:.....	AN EYE WASH STATION AND SAFETY SHOWER SHOULD BE NEAR THE WORK AREA.				
ENGINEERING CONTROLS:.....	ADEQUATE VENTILATION TO AVOID CHRONIC INHALATION OF DUST.				

**PRODUCT: POTASSIUM HYDROXIDE 90% FLAKE****SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE:..... SOLID.  
 ODOUR/APPEARANCE:..... ODOURLESS, WHITE, FLAKES.  
 ODOUR THRESHOLD:..... ODOURLESS.  
 pH:..... 14 (10G/100ML H<sub>2</sub>O).  
 FREEZING POINT °C:..... 360 (melting point).  
 BOILING POINT °C:..... NOT AVAILABLE.  
 FLASH POINT, F, COC..... NOT APPLICABLE.  
 EVAPORATION RATE:..... NOT APPLICABLE.  
 % VOLATILE:  
 BY VOLUME  
 BY WEIGHT..... NOT APPLICABLE.  
 UPPER EXPLOSION LIMIT:..... NOT APPLICABLE.  
 LOWER EXPLOSION LIMIT:..... NOT APPLICABLE.  
 VAPOUR PRESSURE:..... NOT AVAILABLE.  
 REL. VAPOUR DENSITY..... NOT AVAILABLE.  
 SPECIFIC GRAVITY:..... 2.044.

**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

SOLUBILITY IN WATER (20 °C):..... 770 g/l at 20C.  
 COEFFICIENT WATER/OIL DIST.:  
 AUTO IGNITION TEMPERATURE °C:..... NOT APPLICABLE.

**SECTION 10: STABILITY AND REACTIVITY**

REACTS VIOLENTLY WITH..... CAN REACT VIOLENTLY IN THE PRESENCE OF THE ABOVE.  
 CHEMICAL STABILITY:  
 YES..... YES.  
 NO, WHICH CONDITIONS?..... SEE INCOMPATIBILITY SECTION.  
 COMPATIBILITY WITH OTHER  
 SUBSTANCES:  
 YES..... ACIDS-VIOLENT REACTION CAN OCCUR, YIELDING HEAT AND PRESSURE WHICH  
 CAN BURST AN ENCLOSED CONTAINER. WATER-REACTION MAY GENERATE  
 ENOUGH HEAT TO IGNITE COMBUSTIBLE MATERIALS. METALS-REACTION MAY  
 PRODUCE FLAMMABLE AND EXPLOSIVE HYDROGEN GAS. ORGANOHALOGEN  
 COMPOUNDS-MAY REACT TO FORM SPONTANEOUSLY COMBUSTIBLE  
 COMPOUNDS. MALEIC ANHYDRIDE AND NITRO AND CHORO ORGANIC  
 COMPOUNDS-MAY REACT EXPLOSIVELY.  
 NO, WHICH ONES?.....  
 RATE OF BURNING:..... NOT APPLICABLE.  
 EXPLOSIVE POWER:..... NOT AVAILABLE.  
 EXPLOSION DATA:  
 SENSITIVITY TO STATIC DISCHARGE:..... NOT AVAILABLE.  
 SENSITIVITY TO IMPACT:..... NOT AVAILABLE.  
 DECOMPOSITION:..... NOT AVAILABLE.

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
POTASSIUM HYDROXIDE	NOT AVAILABLE	ORAL RAT 273 mg/Kg
ROUTE OF ENTRY:		
IRRITANCY OF MATERIAL:.....	IRRITANT.	
SKIN CONTACT:.....	EXTREMELY CORROSIVE. CAPABLE OF CAUSING SEVERE BURNS WITH DEEP ULCERATION. CAN PENETRATE TO DEEPER LAYERS OF SKIN CAUSING PERMANENT SCARRING AND POSSIBLY DEATH. CORROSION CAN CONTINUE UNTIL REMOVED. SEVERITY OF INJURY DEPENDS ON THE CONCENTRATION AND DURATION OF EXPOSURE. BURNS ARE NOT IMMEDIATELY PAINFUL; ONSET OF PAIN MAY BE MINUTES TO HOURS.	
SKIN ABSORPTION:.....	SEE SKIN CONTACT.	
EYE .....	EXTREMELY CORROSIVE. MAY CAUSE BLINDNESS, BURNS OR SEVERE IRRITATION.	

**PRODUCT: POTASSIUM HYDROXIDE 90% FLAKE**

INGESTION:..... THERE ARE NO REPORTED CASES OF INDUSTRIAL WORKERS INGESTING POTASSIUM HYDROXIDE OR ITS SOLUTIONS. SHOULD INGESTION OCCUR, SEVERE PAIN; BURNING OF THE MOUTH, THROAT AND ESOPHAGUS; VOMITING; DIARRHEA; COLLAPSE AND POSSIBLE DEATH MAY RESULT.

INHALATION ..... IRRITATION OF THE NOSE, THROAT AND LUNGS COULD OCCUR DUE TO THE CORROSIVE NATURE OF POTASSIUM HYDROXIDE. HOWEVER, SEVERE INJURY IS USUALLY AVOIDED BY SELF-LIMITING SNEEZING, COUGHING AND DISCOMFORT.

MEDICAL CONDITIONS AGGRAVATED BY MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE TO THIS PRODUCT OVEREXPOSURE: HAVE NOT BEEN ESTABLISHED. UNNECESSARY EXPOSURE TO THIS PRODUCT OR ANY OTHER CHEMICAL SHOULD BE AVOIDED.

EFFECTS OF ACUTE EXPOSURE:..... REFER TO ROUTE OF ENTRY.

EFFECTS OF CHRONIC EXPOSURE:..... NOT AVAILABLE. REFER TO ROUTE OF ENTRY.

INHALATION CHRONIC:..... SEE INHALATION ACUTE.

REPRODUCTIVE EFFECTS:

REPRODUCTIVE TOXICITY:..... NOT AVAILABLE.

SENSITIZING CAPABILITY OF MATERIAL: NOT AVAILABLE.

SYNERGISTIC MATERIALS:..... NOT AVAILABLE.

MUTAGENICITY:..... NOT AVAILABLE.

TERATOGENICITY & EMBRYOTOXICITY:.. NOT AVAILABLE.

CARCINOGENICITY OF MATERIAL:..... POTASSIUM AND SODIUM HYDROXIDE HAVE BEEN IMPLICATED AS A CAUSE OF CANCER OF THE ESOPHAGUS IN INDIVIDUALS WHO HAVE INGESTED IT. THE CANCER MAY DEVELOP 12 TO 42 YEARS AFTER THE INGESTION INCIDENT. SIMILAR CANCERS HAVE BEEN OBSERVED AT THE SITES OF SEVERE THERMAL BURNS. THESE CANCERS MAY BE DUE TO TISSUE DESTRUCTION AND SCAR FORMATION RATHER THAN THE ACTION OF THE HYDROXIDE ITSELF.

ACUTE ORAL TOXICITY..... SEE SECTION 3, HAZARDOUS INGREDIENTS.

LC 50 OF MATERIAL, SPECIES & ROUTE: NOT AVAILABLE.

**SECTION 12: ECOLOGICAL INFORMATION**

ENVIRONMENTAL..... NOT AVAILABLE. BIODEGRADABILITY..... NOT AVAILABLE.

**SECTION 13: DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL, METHOD AND ..... ALL WASTE FROM THIS PRODUCT INCLUDING ALL EMPTY CONTAINERS MUST BE EQUIPMENT: DISPOSED OF IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL REGULATIONS.

**SECTION 14: TRANSPORT INFORMATION**

T.D.G. CLASSIFICATION:..... CLASS 8 UN 1813 P.G. II.

T.D.G. SHIPPING NAME:..... POTASSIUM HYDROXIDE, SOLID.

T.D.G. SHIPPING INFORMATION:..... SHIP IN COMPLIANCE WITH THE TRANSPORTATION OF DANGEROUS GOODS ACT.

EMERGENCY RESPONSE GUIDE NUMBER:

**SECTION 15: REGULATORY INFORMATION**

WHMIS CLASSIFICATION:..... CLASS D DIV. 1 SUB. B. CLASS E.

CPR COMPLIANCE..... THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL OF THE INFORMATION REQUIRED BY THE CPR.

**SECTION 16: OTHER INFORMATION**

MANUFACTURERS MSDS DATE:..... 01/21/2015.

NOTE:..... The information on this Material Safety Data Sheet has been obtained from the manufacturer, and where applicable, from other reliable sources such as CCOHS and RTECS. However, Canwax makes no warranties, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein, and shall not be held liable (regardless of fault) to anyone directly or indirectly for damages or injuries in the use of this product arising out of or in connection with the accuracy, completeness or adequacy of such information.

PREPARED BY ..... Regulatory Affairs

PREPARATION DATE..... JAN21/15