

BEBBINGTON INDUSTRIES SAFETY DATA SHEET

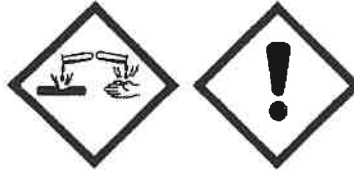
CAUSTIC POTASH

(POTASSIUM HYDROXIDE FLAKE)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER	BEBBINGTON INDUSTRIES 44 WRIGHT AVENUE DARTMOUTH, NOVA SCOTIA, CANADA B3B 1G6
PRODUCT NAME	CAUSTIC POTASH (POTASSIUM HYDROXIDE FLAKE)
CHEMICAL FORMULA	KOH
CHEMICAL FAMILY	INORGANIC ALKALI
MATERIAL USE	REFER TO TECHNICAL LITERATURE
EMERGENCY NUMBER	CANUTEC 1 613 996 6666

SECTION 02: HAZARDS IDENTIFICATION



HAZARD CLASSIFICATION.....	CORROSIVE TO METALS — CATEGORY 1 . SKIN CORROSION — CATEGORY 1B. SERIOUS EYE DAMAGE — CATEGORY 1. ACUTE TOXICITY (ORAL) — CATEGORY 4.
SIGNAL WORD.....	DANGER.
HAZARD STATEMENT.....	H290 MAY BE CORROSIVE TO METALS. H318 CAUSES SERIOUS EYE DAMAGE. H301 TOXIC IF SWALLOWED. H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. H402 HARMFUL TO AQUATIC LIFE.
PRECAUTIONARY STATEMENT.....	P260 DO NOT BREATHE DUST/FUME/GAS/MIST/VAPOURS/SPRAY. P264 WASH... THOROUGHLY AFTER HANDLING. P273 AVOID RELEASE TO THE ENVIRONMENT. P270 DO NO EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P301+P310 IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. P301+P330+P331 IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING. P303+P361+P353 IF ON SKIN (OR HAIR): REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER. P305+P351+P338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. P304+P340 IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. P310 IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. P390 ABSORB SPILLAGE TO PREVENT MATERIAL DAMAGE. P363 WASH CONTAMINATED CLOTHING BEFORE REUSE. P405 STORE LOCKED UP. P406 STORE IN CORROSIVE RESISTANT/... CONTAINER WITH A RESISTANT INNER LINER. P501 DISPOSE OF CONTENTS/CONTAINER ACCORDING TO ALL APPLICABLE REGULATIONS.
OTHER HAZARDS.....	NOT ASSESSED.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
POTASSIUM HYDROXIDE	1310-58-3	90-95

SECTION 04: FIRST AID MEASURES

BY ROUTE OF ENTRY.....	IF INHALED REMOVE FROM CONTAMINATED AREA TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE HUMIDIFIED AIR. GIVE OXYGEN BUT ONLY BY A CERTIFIED PHYSICIAN. IF BREATHING STOPS, BEGIN ARTIFICIAL RESPIRATION IMMEDIATELY. IN CASE OF SKIN CONTACT REMOVE ALL CONTAMINATED CLOTHING. WASH OFF IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15-20 MINUTES. . WASH CLOTHING SEPARATELY BEFORE REUSE. DESTROY OR THOROUGHLY CLEAN CONTAMINATED SHOES. IN CASE OF EYE CONTACT, IMMEDIATELY FLUSH EYES
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PRODUCT: CAUSTIC POTASH FLAKE**SECTION 04: FIRST AID MEASURES**

BY ROUTE OF ENTRY..... WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. REMOVE CONTACT LENSES IF PRESENT. CONTINUE RINSING. IF INGESTED NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. RINSE MOUTH WITH WATER. GIVE PLENTY OF WATER.

NOTES TO PHYSICIAN:..... THE APPLICATION OF ICE TO SKIN BURNS WILL REDUCE SCARRING.

SECTION 05: FIRE FIGHTING MEASURES

FLAMMABILITY..... NOT FLAMMABLE.
IF YES, UNDER WHICH CONDITIONS?

SUITABLE EXTINGUISHING MEDIA..... SUITABLE FOR SURROUNDING FIRE.

HAZARDOUS COMBUSTION PRODUCTS. N.A.P.
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL N.A.V.

SPECIAL PROCEDURES..... WEAR FULL PROTECTIVE EQUIPMENT INCLUDING A SELF-CONTAINED BREATHING APPARATUS. NOTE:.. CAUTION.....CORROSIVE MATERIAL.

SECTION 06: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS..... STOP SPILL AT SOURCE IF POSSIBLE WITHOUT RISK. CAUTION! CORROSIVE MATERIAL. FOLLOW ALL APPLICABLE FIRE AND EXPLOSION PRECAUTIONS DURING THE SPILL RESPONSE PROCEDURE.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP:..... CLEANUP PERSONNEL MUST WEAR PROPER PROTECTIVE EQUIPMENT. COMPLETELY CONTAIN SPILLED MATERIAL WITH DIKES, SANDBAGS, ETC., AND PREVENT ANY RUN-OFF INTO GROUND OR SURFACE WATERS OR SEWERS. RECOVER AS MUCH MATERIAL AS POSSIBLE INTO CONTAINERS FOR DISPOSAL. REMAINING MATERIAL MAY BE NEUTRALIZED WITH DILUTE HYDROCHLORIC OR ACETIC ACID. NEUTRALIZATION PRODUCTS, BOTH LIQUID AND SOLID, MUST BE RECOVERED FOR DISPOSAL.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING..... CORROSIVE MATERIAL. HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICES. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING MIST OR VAPOUR. WEAR PROTECTIVE EQUIPMENT DURING HANDLING. WHEN DILUTING, ALWAYS ADD THE PRODUCT TO WATER, NEVER ADD WATER TO THE PRODUCT. KEEP CONTAINERS CLOSED OR SEALED. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES. FOLLOW LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED.

CONDITIONS FOR SAFE STORAGE..... PROTECT CONTAINER FROM PHYSICAL DAMAGE. KEEP THE CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. STORE AWAY FROM INCOMPATIBLE MATERIALS. STORE IN A COOL AND WELL-VENTILATED AREA.

SECTION 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
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POTASSIUM
HYDROXIDE TLV 2 MG/M3
(CEILING)

EXPOSURE LIMIT OF MATERIAL..... POTASSIUM HYDROXIDE: 2 MG/M3 (ACGIH TLV).

ENGINEERING CONTROLS..... GOOD VENTILATION SHOULD BE PROVIDED TO KEEP VAPOUR AND MIST CONCENTRATIONS BELOW THE EXPOSURE LIMITS.

SKIN AND BODY PROTECTION..... CONTACT GLOVE MANUFACTURER FOR SPECIFIC INFORMATION.

RESPIRATORY PROTECTION..... USE NIOSH APPROVED SUPPLIED-AIR RESPIRATOR.

EYE/FACE PROTECTION..... SPLASH PROOF CHEMICAL GOGGLES. FACE SHIELD.

FOOTWEAR/TYPE..... ACID-PROOF BOOTS.

OTHER/TYPE..... EYE WASH STATION AND SAFETY SHOWER SHOULD BE LOCATED NEAR THE WORK STATION.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... SOLID. FLAKES.

ODOUR..... ODORLESS.

ODOUR THRESHOLD..... N.A.P.

PH..... 14. (AQUEOUS SOLUTION).

MELTING POINT/FREEZING POINT (C).... MELTING 361 C.

BOILING POINT..... (INITIAL). 1320 C.

PRODUCT: CAUSTIC POTASH FLAKE

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

FLASH POINT (C), METHOD.....	N.A.P., NOT FLAMMABLE.
EVAPORATION RATE.....	N.A.V.
FLAMMABILITY (SOLIDS AND GASES).....	NOT APPLICABLE.
UPPER FLAMMABLE LIMIT (% BY VOL.).....	NOT APPLICABLE.
LOWER FLAMMABLE LIMIT (% BY VOL.).....	NOT APPLICABLE.
VAPOUR PRESSURE.....	N.A.V.
VAPOUR DENSITY (AIR=1).....	N.A.V.
SPECIFIC GRAVITY (WATER=1).....	2.044.
SOLUBILITY IN WATER (% W/W).....	VERY SOLUBLE.
COEFFICIENT OF WATER/OIL DIST.....	NO DATA AVIALBALE.
AUTO IGNITION TEMPERATURE.....	NOT AVAILABLE.
DECOMPOSITION TEMPERATURE.....	N.A.V.
VISCOSITY.....	NO DATA AVAILABLE.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:.....	EXCESSIVE HEAT, SPARKS AND OPEN FLAME. REACTS VIOLENTLY WITH WATER AND ORGANIC MATERIALS WITH EVOLUTION OF HEAT. REACTS WITH ACIDS.
CHEMICAL STABILITY:	
YES.....	YES.
NO, WHICH CONDITIONS?	
POSSIBILITY OF HAZARDOUS REACTIONS	SEE REACTIVITY.
CONDITIONS TO AVOID:.....	AVOID DIRECT SUNLIGHT. AVOID TEMPERATURE EXTREMES.
SENSITIVITY TO STATIC DISCHARGE.....	N.A.V.
SENSITIVITY TO IMPACT.....	N.A.V.
COMPATABILITY WITH OTHER SUBSTANCES:	
YES	
REACTIVITY CONDITIONS.....	STRONG OXIDIZING AGENTS, ACIDS.
HAZARDOUS DECOMPOSITION PRODUCTS	FLAMMABLE HYDROGEN GAS MAY BE GENERATED WHEN KOH AND CERTAIN METALS REACT.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
POTASSIUM HYDROXIDE		273 mg/kg
LC 50 OF MATERIAL, SPECIES & ROUTE.	N.A.V.	
LD 50 OF MATERIAL, SPECIES & ROUTE.	333 MG/KG. (ORAL-RAT). 1350 MG/KG. DERMAL, RABBIT.	
ROUTE OF ENTRY:		
INHALATION.....	MISTS AND VAPOURS MAY CAUSE SEVERE IRRITATION TO THE RESPIRATORY TRACT.	
INGESTION.....	IMMEDIATE EFFECTS MAY INCLUDE: BURNS OF THE MOUTH, ESOPHAGUS AND STOMACH, WITH SEVERE PAIN, BLEEDING, VOMITING, DIARRHEA AND COLLAPSE OF BLOOD PRESSURE. DAMAGE MAY APPEAR DAYS AFTER EXPOSURE. SWALLOWING MAY BE FATAL.	
SKIN CORROSION / IRRITATION.....	POSSIBLE SKIN CORROSION, BURNS OR ULCERS.	
SKIN ABSORPTION.....	N.A.V.	
SERIOUS EYE DAMAGE / EYE IRRITATION	POSSIBLE EYE CORROSION OR ULCERATION (BLINDNESS MAY RESULT).	
IRRITANCY OF MATERIAL.....	SEE SECTION 2.	
EFFECTS OF ACUTE EXPOSURE.....	SEVERE CHEMICAL BURNS TO EYES AND SKIN. SEVERITY OF BURN IS GENERALLY DETERMINED BY THE CONCENTRATION OF THE SOLUTION AND DURATION OF EXPOSURE. MISTS MAY PRODUCE SEVERE IRRITATION OF RESPIRATORY TRACT (COUGH, SHORTNESS OF BREATH, CHOCKING).	
MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE	MAY AGGRAVATE AN EXISTING DERMATITIS, ASTHMA, AND INFLAMMATORY OR FIBROTIC PULMONARY DISEASE.	
SYNERGISTIC MATERIALS.....	NONE.	
EFFECTS OF CHRONIC EXPOSURE.....	TARGET ORGANS FOR ACUTE AND CHRONIC OVEREXPOSURE (NIOSH 90-117): RESPIRATORY SYSTEM, EYES, SKIN, TEETH. MISTS: POSSIBLE IRRITATION OF THE NOSE AND THROAT WITH SNEEZING, SORE THROAT OR RUNNY NOSE. GROSS OVEREXPOSURE: POSSIBLE IRRITATION OF NOSE, THROAT, AND LUNGS WITH COUGH, DIFFICULTY BREATHING OR SHORTNESS OF BREATH. PULMONARY EDEMA WITH COUGH, WHEEZING, ABNORMAL LUNGS SOUNDS, POSSIBLY PROGRESSING TO SHORTNESS OF BREATH AND BLUIISH DISCOLORATION OF THE SKIN; SYMPTOMS MAY BE DELAYED, REPEATED OR PROLONGED EXPOSURE TO MISTS MAY CAUSE CORROSION OF TEETH. CONTACT: POSSIBLE SKIN CORROSION, BURNS OR ULCERS. POSSIBLE EYE CORROSION OR ULCERATION.	
CARCINOGENICITY.....	NOT CLASSIFIED AS A CARCINOGEN.	
REPRODUCTIVE TOXICITY.....	N.A.V.	
SENSITIZING CAPABILITY OF MATERIAL.	N.A.V.	

PRODUCT: CAUSTIC POTASH FLAKE

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY..... N.A.V.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS..... IN ACCORDANCE WITH MUNICIPAL, PROVINCIAL AND FEDERAL REGULATIONS.

SECTION 14: TRANSPORT INFORMATION

UN NUMBER..... 1813.
 TDG CLASSIFICATION..... 8.
 PROPER SHIPPING NAME..... POTASSIUM HYDROXIDE, SOLID.
 PACKING GROUP..... II.
 SPECIAL SHIPPING INSTRUCTIONS..... REFER TO TRANSPORTATION OF DANGEROUS GOOD REGULATIONS.

SECTION 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION..... D1B, E.
 HPR COMPLIANCE..... THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE HPR AND THE SDS CONTAINS ALL THE INFORMATION REQUIRED BY THE HPR.

SECTION 16: OTHER INFORMATION

PREPARED BY BEBBINGTON INDUSTRIES
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DISCLAIMER:

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