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MATERIAL SAFETY DATA SHEET

ALUMACLEAN

SECTION 1 MATERIAL IDENTIFICATION

WHMIS CLASSIFICATION	WHMIS CLASS D-2A, E:
HMS	HEALTH 3, FLAMMABILITY 0, REACTIVITY 3, PERSONAL PROTECTION C
CHEMICAL FAMILY	ALKALINE
CHEMICAL FORMULA	MIXTURE
MOLECULAR WEIGHT	NOT APPLICABLE
MATERIAL USE	CLEANER

SECTION 2 HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENT	SODIUM METASILICATE
APPROX. CONCENTRATION	1-5
%	
CAS	6834-92-0
EXPOSURE LIMITS	NOT AVAILABLE
LD50/LC50/SPECIES/ROUTE	ORAL (LD50) MG/KG: ACUTE: 1153 (RAT). 770 (MOUSE). 1280 (RAT)

HAZARDOUS INGREDIENT	CAUSTIC POTASH
APPROX. CONCENTRATION	10-30
%	
CAS	1310-58-3
EXPOSURE LIMITS	NOT AVAILABLE
LD50/LC50/SPECIES/ROUTE	ORAL (LD50) MG/KG: ACUTE: 365 (RAT).

SECTION 3 PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE	LIQUID
ODOUR AND APPEARANCE	MILD ODOUR, CLEAR LIQUID
ODOUR THRESHOLD (PPM)	NOT AVAILABLE
SPECIFIC GRAVITY	1.15
VAPOUR PRESSURE (MM)	NOT APPLICABLE
VAPOUR DENSITY (AIR =1)	NOT APPLICABLE
BOILING POINT (°C)	NOT DETERMINED
FREEZING POINT (°C)	NOT DETERMINED
SOLUBILITY IN WATER (20°C)	SOLUBLE
% VOLATILE (BY VOL.)	NOT AVAILABLE
PH	13.25

SECTION 4 FIRE AND EXPLOSION DATA

FLAMMABILITY	NOT FLAMMABLE
MEANS OF EXTINCTION	USE EXTINGUISHING MEDIA FOR SURROUNDING MATERIALS.
SPECIAL PROCEDURES	NOT AVAILABLE.
FLASHPOINT (°C) AND METHOD	NOT APPLICABLE
UPPER EXPLOSION LIMIT (% BY VOL.)	NOT APPLICABLE

LOWER EXPLOSION LIMIT (% BY VOL.)	NOT APPLICABLE
AUTO-IGNITION TEMPERATURE (°C)	NOT APPLICABLE
HAZARDOUS COMBUSTION PRODUCTS	NOT AVAILABLE
EXPLOSION SENSITIVITY TO CHEM. IMPACT	NOT AVAILABLE

SECTION 5 REACTIVITY DATA

CHEMICAL STABILITY	STABLE
INCOMPATIBILITY? TO WHAT?	HIGHLY REACTIVE WITH ORGANIC MATERIALS, ACIDS. SLIGHTLY REACTIVE TO REACTIVE WITH OXIDIZING AGENTS, REDUCING AGENTS, METALS, ALKALIS, MOISTURE.
HAZARDOUS DECOMPOSITION PRODUCTS	NOT AVAILABLE

SECTION 6 TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY SKIN CONTACT Y/N	Y
ROUTE OF ENTRY EYE CONTACT Y/N	Y
ROUTE OF ENTRY INHALATION ACUTE Y/N	Y
ROUTE OF ENTRY INHALATION CHRONIC Y/N	N
ROUTE OF ENTRY INGESTION Y/N	Y
EFFECTS OF ACUTE EXPOSURE	DANGEROUS IN CASE OF SKIN CONTACT (IRRITANT), OF EYE CONTACT (IRRITANT), OF INGESTION, OF INHALATION. LIQUID OR SPRAY MIST MAY PRODUCE TISSUE DAMAGE PARTICULARLY ON MUCOUS MEMBRANES OF EYES, MOUTH AND RESPIRATORY TRACT. SKIN CONTACT MAY PRODUCE BURNS. INHALATION OF THE SPRAY MIST MAY PRODUCE SEVERE IRRITATION OF RESPIRATORY TRACT, CHARACTERIZED BY COUGHING, CHOKING OR SHORTNESS OF BREATH. CAN BE FATAL IF INHALED OR INGESTED. THIS PRODUCT MAY IRRITATE EYES AND SKIN UPON CONTACT. INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING AND ITCHING. SKIN INFLAMMATION IS CHARACTERIZED BY ITCHING, SCALING, REDDENING OR OCCASIONALLY BLISTERING.
EFFECTS OF CHRONIC EXPOSURE	REPEATED SKIN EXPOSURE CAN PRODUCE LOCAL SKIN DESTRUCTION OR DERMATITIS.
SYNERGISTIC MATERIALS	NOT AVAILABLE
CARCINOGENICITY Y/N	N
REPRODUCTIVE EFFECTS Y/N	N
TERATOGENCITY Y/N	N
MUTAGENICITY Y/N	N

SECTION 7 PREVENTIVE MEASURES

GLOVES	IMPERVIOUS GLOVES
EYEWEAR	SAFETY GLASSES
FOOTWEAR	AS REQUIRED BY EMPLOYER CODE
CLOTHING	AS REQUIRED BY EMPLOYER CODE
ENGINEERING CONTROLS	GENERAL VENTILATION FOR ROOM TEMPERATURE. USE LOCAL EXHAUST FOR ELEVATED TEMPERATURE USE.
LEAK AND SPILL PROCEDURE	USE APPROPRIATE TOOLS TO PUT THE SPILLED SOLID IN A CONVENIENT WASTE DISPOSAL CONTAINER. IF NECESSARY, NEUTRALIZE THE RESIDUE WITH A DILUTE SOLUTION OF ACETIC ACID. CORROSIVE LIQUID. STOP LEAK IF WITHOUT RISK. CALL FOR ASSISTANCE ON DISPOSAL.
WASTE DISPOSAL	RECYCLE IF POSSIBLE. CONSULT YOUR LOCAL OR

STORAGE REQUIREMENTS

REGIONAL AUTHORITIES.
MAY CORRODE METALLIC SURFACES. STORE IN A PLASTIC OR COATED FIBREBOARD DRUM USING A STRONG POLYETHYLENE INNER PACKAGE. CORROSIVE MATERIALS SHOULD BE STORED IN A SEPARATE SAFETY STORAGE CABINET OR ROOM.

SECTION 8 FIRST AID MEASURES

SKIN	REMOVE CONTAMINATED CLOTHES AS QUICKLY AS POSSIBLE, PROTECTING YOUR OWN HANDS AND BODY. IF THE CHEMICAL TOUCHES THE VICTIM'S EXPOSED SKIN, SUCH AS THE HANDS: NEUTRALIZE EXPOSED SKIN WITH A DILUTE SOLUTION OF BORIC ACID OR ACETIC ACID. GENTLY AND THOROUGHLY WASH THE CONTAMINATED SKIN WITH RUNNING WATER AND NON-ABRASIVE SOAP. BE PARTICULARLY CAREFUL TO CLEAN FOLDS, CREVICES, CREASES AND GROIN. COLD WATER MAY BE USED. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. WASH CONTAMINATED CLOTHING BEFORE REUSING.
EYE	CHECK FOR AND REMOVE ANY CONTACT LENSES. IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT LEAST 15 MINUTES, KEEPING EYELIDS OPEN. COLD WATER MAY BE USED. DO NOT USE AN EYE OINTMENT. SEEK MEDICAL ATTENTION.
INHALATION	EVACUATE THE VICTIM TO A SAFE AREA AS SOON AS POSSIBLE. LOOSEN TIGHT CLOTHING SUCH AS A COLLAR, TIE, BELT OR WAISTBAND. OXYGEN MAY BE ADMINISTERED IF BREATHING IS DIFFICULT. IF THE VICTIM IS NOT BREATHING, PERFORM MOUTH-TO-MOUTH RESUSCITATION. WARNING: IT MAY BE DANGEROUS TO THE PERSON PROVIDING AID TO GIVE MOUTH-TO-MOUTH RESUSCITATION WHEN THE INHALED MATERIAL IS TOXIC, INFECTIOUS OR CORROSIVE. SEEK IMMEDIATE MEDICAL ATTENTION.
INGESTION	DO NOT INDUCE VOMITING. HAVE CONSCIOUS PERSON DRINK SEVERAL GLASSES OF WATER OR MILK. EXAMINE THE LIPS AND MOUTH TO ASCERTAIN WHETHER THE TISSUES ARE DAMAGED, A POSSIBLE INDICATION THAT THE TOXIC MATERIAL WAS INGESTED; THE ABSENCE OF SUCH SIGNS, HOWEVER, IS NOT CONCLUSIVE. LOOSEN TIGHT CLOTHING SUCH AS A COLLAR, TIE, BELT OR WAISTBAND. IF THE VICTIM IS NOT BREATHING, PERFORM MOUTH-TO-MOUTH RESUSCITATION. SEEK IMMEDIATE MEDICAL ATTENTION.

*VALIDATED BY YORK CHEMICAL
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