

MATERIAL SAFETY DATA SHEET

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PRODUCT CODE: 2040

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SECTION I PRODUCT IDENTIFICATION

PRODUCT NAME : ALUMA GUARD
CHEMICAL NAME : ALKALI SURFACTANT BLEND
FORMULA : PROPRIETARY
DOT HAZARD CLASS : CORROSIVE LIQUID, POTASSIUM HYDROXIDE, UN #1814

HAZARD RATING (NFPA 704)

HEALTH: 3
FIRE: 0
REACTIVITY: 0
PROTECTIVE EQUIPMENT:

HAZARD RATING SCALE

0=MINIMAL
1=SLIGHT
2=MODERATE
3=SERIOUS
4=SEVERE

EMERGENCY TELEPHONE NUMBER 800-535-5050

SECTION II HAZARDOUS INGREDIENTS

SUBSTANCES LISTED IN THIS SECTION ARE THOSE IDENTIFIED AS BEING PRESENT AT A CONCENTRATION OF 1% OR GREATER, OR 0.1% IF THE SUBSTANCE IS ON THE LIST OF POTENTIAL CARCINOGENS CITED IN OSHA HAZARD COMMUNICATION STANDARD.

MATERIAL	CAS#	AMOUNT (WT.%)	TLV	PEL
POTASSIUM HYDROXIDE	1310-58-3	10-15	2mg/m3	2mg/m3

SECTION III PHYSICAL DATA

BOILING POINT : 212 °F VOLATILE : 60%
P_H (CONCENTRATE): 14.0 SOLUBILITY IN WATER: COMPLETE
VAPOR DENSITY: (AIR=1): >1 SPECIFIC GRAVITY: 1.240
EVAPORATION RATE (WATER=1): 1 VISCOSITY: 25 CPS @ 68 °F
DESCRIPTION: CLEAR LIGHT ORANGE SOLUTION, BLAND ODOR

SECTION IV FIRE AND EXPLOSION HAZARDS

FLASH POINTS: NON-COMBUSTIBLE METHOD USED: C.O.C.
EXTINGUISHING MEDIA: WATER SPRAY, FOAM, CO₂, DRY CHEMICAL. WHEN USING WATER FOR FIREFIGHTING, RUN-OFF WATER MAY BE CORROSIVE.
UNUSUAL FIRE OR EXPLOSIVE HAZARD: MAY GENERATE HYDROGEN GAS. REACT VIOLENTLY WITH METALS SUCH AS TIN, ZINC, ALUMINUM.

SECTION V HEALTH HAZARD DATA

SIGNS AND SYMPTOMS OF EXPOSURE (SKIN, EYE CONTACT; INHALATION; INGESTION)

EYE CONTACT : VAPORS, MISTS, OR LIQUID ARE EXTREMELY CORROSIVE TO EYES. BRIEF DIRECT CONTACT TO EYES MAY CAUSE PAIN, LACHRYMATION (TEAR), AND SEVERE DAMAGE TO CORNEAL. SERIOUS INJURY MAY RESULT IN PERMANENT IMPAIRMENT OF VISION, EVEN BLINDNESS.
INHALATION : CORROSIVE TO NOSE, THROAT, AND MUCOUS MEMBRANE. EXCESSIVE EXPOSURE MAY CAUSE SEVERE INJURY TO UPPER RESPIRATORY TRACT AND LUNGS.
INGESTION : CAN CAUSE IRRITATION OR SEVERE BURN TO MOUTH, THROAT, AND GASTROINTESTINAL TRACT. MAY ALSO CAUSE ULCERATION. SWALLOWING LARGE QUANTITIES MAY CAUSE SERIOUS INJURY LEADING TO DEATH.
SKIN CONTACT : SHORT, SINGLE EXPOSURE MAY CAUSE SEVERE BURN TO SKINS.

FIRST AID MEASURES

EYE CONTACT : IMMEDIATELY AND IMPERATIVELY FLUSH EYES WITH LOTS OF RUNNING WATER FOR AT LEAST 15 MINUTES, LIFTING THE UPPER AND LOWER EYELIDS TO ENSURE FLUSHING OF THE ENTIRE SURFACE. PROMPT MEDICAL ATTENTION IS ESSENTIAL.

INHALATION : REMOVE TO FRESH AREA. IF NOT BREATHING, GIVE MOUTH TO MOUTH RESUSCITATION. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. CALL A PHYSICIAN IMMEDIATELY.

INGESTION : DO NOT INDUCE VOMITING. DRINK LARGE QUANTITIES OF WATER AND TRANSPORT VICTIM TO MEDICAL FACILITY IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

SKIN CONTACT : WASH SKIN WITH LOTS OF SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND SHOES; WASH BEFORE REUSE. IF IRRITATION OCCURS AND PERSISTS SEEK MEDICAL ATTENTION.

SECTION VI**REACTIVITY DATA**

STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID): AVOID MIXING OF THIS MATERIAL WITH STRONG ACIDS OR OXIDIZERS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: DIRECT FLAME.

HAZARDOUS DECOMPOSITION: FLAMMABLE HYDROGEN GAS UPON CONTACT WITH METALS.

SECTION VII**SPILL OR LEAK PROCEDURES**

CLEAN UP PROCEDURES: ONLY TRAINED AND PROPERLY PROTECTED PERSONNEL SHOULD BE INVOLVED IN SPILLED CLEAN-UP OPERATIONS. MOP UP AND PLACE MATERIAL IN SEALABLE CONTAINERS FOR DISPOSAL. FLUSH CONTAMINATED AREAS WITH WATER. KEEP OUT OF SEWER SYSTEM, SURFACE WATER.

RECOMMENDED WASTE DISPOSAL METHOD: THE MATERIALS RESULTED FROM THE CLEAN-UP OPERATIONS MAY BE HAZARDOUS; THEREFORE, ARE SUBJECTED TO SPECIFIC REGULATIONS. DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. ENSURE THAT ALL APPLICABLE AGENCIES RECEIVE PROPER NOTIFICATION OF SPILL AND DISPOSAL METHODS.

SECTION VIII**SPECIAL PROTECTION DATA**

RESPIRATORY PROTECTION : NIOSH-APPROVED RESPIRATOR.

EYE PROTECTION : CHEMICAL GOGGLES.

PROTECTIVE CLOTHING : RUBBER GLOVES, APRON, FULL-LENGTH CLOTHING AND SAFETY SHOES.

VENTILATION : LOCAL EXHAUST VENTILATION

OTHER PROTECTIVE MEASURES: EYEWASH AND SAFETY SHOWER SHOULD BE NEARBY.

SECTION IX**SPECIAL PRECAUTION**

HYGIENIC PRACTICES IN HANDLING STORING: WASH THOROUGHLY AFTER HANDLING.

PRECAUTION TO BE TAKEN IN HANDLING AND STORING: STORE IN COOL, DRY, VENTILATED AREAS.

DISPOSAL OF EMPTY CONTAINER: EMPTY CONTAINERS SHOULD BE TRIPLE RINSED WITH WATER AND DISPOSED OF PURSUANT TO LOCAL, STATE, AND FEDERAL REQUIREMENTS.

SECTION X**USER'S RESPONSIBILITY**

THE RESPONSIBILITY TO PROVIDE A SAFE WORKPLACE REMAINS WITH THE USER. THE USER SHOULD CONSIDER THE HEALTH HAZARD AND SAFETY INFORMATION CONTAINED HEREIN AS A GUIDE AND SHOULD TAKE THOSE PRECAUTIONS REQUIRED IN AN INDIVIDUAL OPERATION TO INSTRUCT EMPLOYEES AND DEVELOP WORK PRACTICE PROCEDURES FOR A SAFE WORK ENVIRONMENT.

THE INFORMATION CONTAINED HEREIN, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, IS ACCURATE HOWEVER, SINCE THE CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY USE OF THIS MATERIAL. IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.