

HAZARD RATINGS		
	HMS	NFPA
Health	3	3
Fire	0	0
Reactivity	0	0

MATERIAL SAFETY DATA SHEET

Product: Mark 360

Distributor's Name & Address
Chem Mark of Long Beach
8210 Electric Ave.
Stanton, CA 90680
714-220-2436

Section I - Product Identification and Company Info.

Product Name: Mark 360
Product Use: Automatic Warewashing Detergent
General Information: 714-220-2436
Emergency Information: 714-220-2436
CAS NO: n/a - Mixture

Section II - Hazardous Ingredients

Hazard Components	CAS #	Exposure Limits	
		OSHA PEL	ACGIH TLV
Potassium Hydroxide	1310-58-3	2mg/m ³	2mg/m ³
Sodium Hydroxide	1310-73-2	2mg/m ³	2mg/m ³
Potassium salt, silicic acid	1312-76-1	not est.	not est.

Section III - Physical Data

PHYSICAL STATE: Liquid **ODOR:** Slight **APPEARANCE:** Clear Red
VAPOR PRESSURE (mm Hg): n/a **BOILING POINT:** >212° F
pH: 12.5 **SOLUBILITY IN WATER:** 100%
SPECIFIC GRAVITY (H₂O=1): 1.09 **FLASH POINT:** None
VAPOR DENSITY (AIR=1): >1 (heavier than air)
EVAPORATION RATE (WATER=1): <1 (slower than water)

Section IV - Fire and Explosion Data

FLAMMABILITY: No
EXTINGUISHING MEDIA: Water (X), Carbon Dioxide (X), Dry Chemical (X), Foam (X), Other ()

SPECIAL FIRE FIGHTING PROCEDURES: Avoid breathing of vapors. Apply water spray to cool fire-exposed containers and structures. Use water spray to disperse vapors. Use Self Contained Breathing Apparatus (SCBA) or NIOSH approved respirator and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: If material is released, area will become slippery.

Section V - Reactivity Data

STABILITY: Stable
INCOMPATIBILITY (MATERIALS TO AVOID): Acids, oxidizers and strong alkalies, bleach and ammonia. Soft metals such as aluminum, zinc and tin.
HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: Nitrogen, CO, CO₂
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Contact with aluminum and soft metals. Keep from freezing.

Section VI - Health Hazard Data & First Aid

ROUTES OF ENTRY: Inhalation: (X), Ingestion: (X), Dermal: (X), Eye Contact (X)
EFFECTS OF OVER EXPOSURE:
SKIN: May cause severe irritation or burns on prolonged contact. Corrosive to skin.
EYES: Product is a severe irritant. May cause blindness through contact.
INGESTION: Can cause damage to mucous membranes of the mouth, esophagus, stomach and bronchial tract.
INHALATION: Exposure to mist or liquid can produce burns of the respiratory tract, resulting in a coughing, burning of the throat and choking sensation.
CARCINOGENITY: NTP NO IRAC NO OSHA NO

Section VI - Health Hazard Data & First Aid cont'd.

EMERGENCY AND FIRST AID PROCEDURES:

GENERAL: If a known exposure occurs or is suspected and is determined to be a health threat or if any symptoms persists, contact a physician, the nearest hospital, or the nearest Poison Control Center. Inform the person contacted of the type and extent of the exposure, describe the victim's symptoms and follow the advice given.

SKIN: Immediately remove contaminated clothing under safety shower. Flush all affected areas with large amounts of water for at least 15 minutes. DO NOT attempt to neutralize with chemical agents. Obtain medical advice immediately.

EYES: Immediately flush the eyes with large quantities of running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the entire surface of the eyes and lids with water. DO NOT attempt to neutralize with chemical agents. Obtain medical attention as soon as possible. Oils or ointments should not be used. Continue the flushing for an additional 15 minutes if the physician is not immediately available.

INGESTION: DO NOT INDUCE VOMITING. Immediately give large quantities of water or milk, if available. If vomiting does occur, give fluids again. Never give anything by mouth to an unconscious person. Call a physician or nearest Poison Control Center immediately.

INHALATION: Remove from contaminated atmosphere. If breathing has ceased, clear the victim's airway and start mouth-to-mouth artificial respiration, which may be supplemented by the use of a bag-mask respirator, or a manually-triggered, oxygen supply capable of delivering 1 liter/second or more. If the victim is breathing, oxygen may be administered from a demand-type or continuous-flow inhalator, preferably with a physician's advice. Contact a physician immediately.

Section VII - Precautions for Safe Handling & Use

WASTE DISPOSAL METHOD: Dispose of in accordance with all Local, State and Federal regulations.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a tightly closed container. Do not store near oxidizers, alkalies, acids and bleach. Do not mix with other chemicals. Store away from excessive heat. Do not freeze. Keep away from food stuffs. Keep out of reach of children.

STEPS TO BE TAKEN IN CASE OF SPILL OR RELEASE: To contain spilled material, dike area involved. Neutralize with the following acids: Vinegar, citric acid, muriatic or hydrochloric acid. To absorb product, use porous material such as diatomaceous earth, sand or a commercial absorbent. Using a shovel, place into leak proof containers.

Section VIII - Control Measures

RESPIRATORY PROTECTION (SPECIFIC TYPE): None needed for normal clean up. If mist or vapor may be generated, a Self Contained Breathing Apparatus (SCBA) or NIOSH approved respirator is advised.

VENTILATION: Provide adequate ventilation or use mechanical devices.

PERSONAL PROTECTION EQUIPMENT: Protective clothing.

PROTECTIVE GLOVES: Rubber type. Chemical resistant.

EYE PROTECTION: Safety splash monogoggles.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Solvent resistant boots & clothing. Have clean water available for washing.

WORK/HYGIENE PRACTICE: Avoid accidental spills on skin, wash after use. Wash contaminated clothing prior to reuse.

Section IX - Transportation Information

PACKAGE SIZE: 5 Gallons or larger.

COMPOUNDS, Cleaning Liquid, 8,NA 1760, PG II (contains sodium hydroxide).

DOT LABEL: Corrosive.

PLACARD: Corrosive (1001 lbs. or more).

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