

# MATERIAL SAFETY DATA SHEET

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## I-PRODUCT IDENTIFICATION

### COMMAND

PRODUCT CODE: #047B, #047C

CHEMICAL FORMULATION: HEAVY DUTY ALKALINE DEGREASER

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH:2 FLAMMABILITY: 0 REACTIVITY: 0

HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

## II - HAZARDOUS INGREDIENTS

Hazardous Components (Specific Chemical Identity; Common Name (s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits	
				Recommended	% optional
SODIUM METASILICATE	6834920		N/A		<5.0%
POTASSIUM HYDROXIDE	1310583		10ppm		<15.0%
ISOPROPANOL	67630		400ppm		<5.0%
2-BUTOXYETHANOL	111762		50ppm		<5.0%

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling Level STEL: Short Term Exposure Limit

N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No

302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).

355: SARA TITLE III/ List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).

372: SARA TITLE III/ List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

## III - PHYSICAL DATA

BOILING POINT (C/F): 212°F	MELTING POINT:
VAPOR PRESSURE (mm Hg.) P <sub>sig</sub> NOT DET	SPECIFIC GRAVITY (WATER = 1): 1.1
VAPOR DENSITY (AIR = 1): NOT DET	VOC CONTENT (% by weight): UNKNOWN
SOLUBILITY IN WATER: SOLUBLE	EVAPORATION RATE (Water = 1): 1.0
	pH: 13.50
APPEARANCE AND ODOR: CLEAR, YELLOW LIQUID, SLIGHT DETERGENT ODOR	

## IV - FIRE AND EXPLOSION HAZARD

FLASH POINT (F/C): NONE (TEST METHOD):  
FLAMMABLE LIMITS: UPPER: N/A LOWER: N/A  
EXTINGUISHING MEDIA: WATER, FOAM, CARBON DIOXIDE, DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES: COOL DRUMS IN VICINITY OF FIRE WITH WATER CLUDING  
SELF-CONTAINING BREATHING APPARATUS

UNUSUAL FIRE AND EXPLOSION HAZARD: NONE

## V - REACTIVITY DATA

STABILITY: STABLE  
INCOMPATIBILITY: ACIDIC MATERIALS

CONDITIONS TO AVOID: NONE

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: THERMAL DECOMPOSITION CAN PRODUCE  
CO & CO<sub>2</sub>

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR  
CONDITIONS TO AVOID: NONE

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## VI - HEALTH AND HAZARD DATA

ROUTES OF ENTRY: INHALATION? SKIN? INGESTION?

HEALTH HAZARDS (ACUTE & CHRONIC):

CARCINOGENICITY? NTP? IARC MONOGRAPHS? OSHA REGULATED?

### EFFECTS OF OVEREXPOSURE

**IF IN EYES:** SEVERE DESTRUCTION OF TISSUE.

**IF ON SKIN:** SEVERE IRRITATION, BURNS AND ULCERATION.

**IF SWALLOWED:** SEVERE BURNS TO MUCOUS MEMBRANES, DESTRUCTION OF TISSUE; DANGER MAY BE FATAL IF SWALLOWED

**IF INHALED:** SEVERE IRRITATION OF RESPIRATORY TRACT, PULMONARY EDEMA, LARYNGAL SPASMS.

### EMERGENCY AND FIRST AID PROCEDURES

**IF IN EYES:** FLUSH EYES AND UNDER EYELIDS WITH PLENTY OF COOL WATER FOR AT LEAST 15 MINUTES OR WAS WITH A 5% BORIC ACID SOLUTION. OBTAIN IMMEDIATE MEDICAL ASSISTANCE AND CONTINUE FLUSHING UNTIL ASSISTANCE ARRIVES.

**IF ON SKIN:** REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE RE-USE. FLUSH THOROUGHLY WITH VINEGAR AND WATER.

**IF SWALLOWED:** DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER FOLLOWED WITH CITRUS FRUIT JUICE. CALL PHYSICIAN OR POISON CONTROL CENTER NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

**IF INHALED:** REMOVE PERSON TO FRESH AIR AND CALL PHYSICIAN IMMEDIATELY.  
HELP

## VII - SPILL AND LEAK PROTECTION

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** SOAK UP ON ABSORBENT MATERIAL OR FLUSH AWAY WITH WATER.

**WASTE DISPOSAL METHOD:** CONSULT LOCAL ENVIRONMENTAL AUTHORITIES.

## VIII - SPECIAL PROTECTION INFORMATION

**VENTILATION:** Local Exhaust: RECOMMENDED Mechanical: RECOMMENDED Special: N/A  
Other: N/A

**RESPIRATORY PROTECTION:** USE ONLY WITH ADEQUATE VENTILATION. USE APPROVED RESPIRATOR TO PREVENT INHALATION OF VAPORS OR MISTS.

**PROTECTIVE GLOVES:** IMPERVIOUS RUBBER GLOVES

**EYE PROTECTION:** SAFETY GLASSES

**OTHER PROTECTIVE EQUIPMENT:** PROTECTIVE CLOTHING, EMERGENCY SHOWER AND EYE WASH STATION.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** STORE AWAY IN A COOL, DRY PLACE, AWAY FROM ACIDS. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE.

**OTHER PRECAUTIONS:** KEEP OUT OF REACH OF CHILDREN

**WORK/HYGIENIC PRACTICES :**

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