

# 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	ACGIHTLV	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 LAUNDRY 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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