

**Material Safety Data Sheet  
MARK 80 DETERGENT**

**ChemMARK**

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24 HOUR EMERGENCY PHONE NUMBER:  
CHEMTREC: ..... 800-424-9300

**SECTION I - IDENTIFICATION**

**PRODUCT NAME:**..... MARK 80 DETERGENT  
**CHEMICAL FAMILY:** ..... MODERATELY ALKALINE MATERIAL  
**FORMULA:** ..... N/A  
**CAS NUMBER:** ..... N/A

**SECTION II - HAZARDOUS INGREDIENTS**

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER	ACGIH/TLV	STEL/PEL
Isopropanol	> 1	67-63-0	400 PPM	500 PPM
Dipropylene glycol methyl ether	> 2	34590-94-8	100 PPM	150 PPM

(See section VI for additional TLV information. Also contains biodegradable surfactant.)

**SECTION III - PHYSICAL DATA**

**APPEARANCE:** ..... Clear green liquid with mild odor.  
**BOILING POINT:**..... 212° F.  
**VAPOR PRESSURE:**..... NOT EST.  
**VAPOR DENSITY (AIR=1):**..... NOT EST.  
**SPECIFIC GRAVITY:** ..... 1.01  
**pH:** ..... 11.5 ± 0.4 AS IS  
**SOLUBILITY IN WATER:** ..... Completely soluble in water.

**SECTION IV - FIRE AND EXPLOSION DATA**

**FLASHPOINT:**..... > 200° F.  
**LOWER EXPLOSIVE LIMIT:** .. N/A  
**UPPER EXPLOSIVE LIMIT:** .... N/A  
**EXTINGUISHING MEDIA:**..... Use extinguishing media appropriate to primary cause of fire.  
**SPECIAL FIRE FIGHTING PROCEDURES:** ..... Avoid contact with fire fighting personnel as burns may result from contact with skin. When fighting a fire near or involving this product, wear a self-contained breathing apparatus (SCBA).  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:**..... None known

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### SECTION V - REACTIVITY DATA

**STABILITY:** ..... Stable  
**HAZARDOUS POLYMERIZATION:** Will not occur.  
**INCOMPATIBILITY:** ..... Acids and oxidizing materials.  
**HAZARDOUS DECOMPOSITION:** ..... Carbon monoxide and carbon dioxide upon thermal decomposition.  
**HAZARDOUS POLYMERIZATION:** ..... Will not occur.

### SECTION VI - HEALTH DATA

**THRESHOLD LIMIT VALUE:** . The TLV in section II is the ACGIH/TLV-TWA and OSHA/PEL, (the time weighted average concentration for an eight hour work day.) The STEL is the (short term exposure limit.) (Ceil) is the ceiling limit.  
**OSHA PEL:** ..... Since this product is a mixture, there is no defined PEL(s) established by OSHA. Hazardous components are listed in the Hazardous Ingredients Section of this data sheet.  
**LISTED CARCINOGEN:** ..... This product does not contain any components listed by NTP, IARC, or OSHA as carcinogens at the OSHA reportable levels.  
**MEDICAL CONDITION AGGRAVATED:** ..... Existing skin and/or respiratory disorders may be aggravated by exposure.  
**EYES:** ..... May cause severe eye irritation with possible permanent eye damage and impairment of vision.  
**SKIN (DERMAL):** ..... Skin contact may cause irritation while prolonged exposure may cause chemical burns.  
**INGESTION:** ..... May cause severe gastrointestinal irritation and/or ulceration of the mouth and throat. Single dose oral LD50 has not been determined.  
**INHALATION:** ..... Vapors and mist may cause respiratory tract irritation.  
**CHRONIC OVEREXPOSURE:** . None known

### SECTION VII FIRST AID

**EYES:** ..... In case of contact, immediately flush eyes with lots of running water for at least 15 minutes. Call for medical assistance.  
**SKIN (DERMAL):** ..... Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing and shoes before reuse.  
**INGESTION:** ..... NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. (If available, give several glasses of milk.) If vomiting occurs spontaneously, keep airway clear and give more water. GET MEDICAL ATTENTION IMMEDIATELY.  
**INHALATION:** ..... Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen as directed by medical personnel.

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<b>SECTION VIII EMPLOYEE PROTECTION</b>
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**EYE PROTECTION:**..... Chemical safety splash goggles and full face shield (8" min.) to protect against splashing in compliance with OSHA regulations are advised. OSHA regulations also permit other type safety glasses. (Consult your industrial hygienist) Contact lenses should not be worn when working with any chemicals.

**RESPIRATORY PROTECTION:** Respiratory protection should be worn if levels exceed defined PEL(s) for this product or any hazardous component listed in the Hazardous Ingredient Section of this DATA SHEET.

**PROTECTIVE CLOTHING:** ..... Impervious protective clothing and chemical resistant safety shoes should be worn to minimize contact. Emergency shower and eyewash facility should be in close proximity. (ANSI Z358.1)

**VENTILATION:** ..... Local exhaust sufficient to maintain TLV below permissible exposure limits.

<b>SECTION IX - SPILL AND DISPOSAL DATA</b>
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**SPILL:** ..... Appropriate protective clothing must be worn by trained cleanup personnel. Dike the area to contain the spill. Dilute with large quantities of water and neutralize with dilute acids such as acetic or phosphoric acid. Properly neutralized liquid (pH 6-9) may be disposed of in waste water treatment facilities. Check with local authorities first.

**WASTE DISPOSAL:** ..... Consult all LOCAL, STATE, and FEDERAL regulations with regard to proper and suitable disposal methods.

<b>SECTION X - TRANSPORTATION DATA</b>
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**HAZARD CLASS AND LABEL:** NON HAZARDOUS  
**PROPER SHIPPING NAME:** ..... N/A  
**UN NUMBER:** ..... N/A  
**PACKAGING GROUP:** ..... N/A  
**REPORTABLE QUANTITY:**..... N/A

<b>SECTION XI - OTHER REGULATORY INFORMATION</b>
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**TSCA STATUS:**..... All components in this product are listed on the TSCA inventory.  
**SARA SECTION 313:**..... This product **does not** contain any EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40CFR 372).

C A S #	C H E M I C A L N A M E	P E R C E N T B Y W E I G H T

.....

**NFPA HEALTH:** ..... 2  
**NFPA FLAMMABILITY:**..... 0  
**NFPA REACTIVITY:**..... 0  
**NFPA OTHER:**..... N/A

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**SECTION XII - PRECAUTIONARY LABEL STATEMENTS**

**WARNING:** ..... WARNING! MODERATELY ALKALINE MATERIAL. Eye or skin contact may cause irritation, chemical burns, and permanent eye damage. Harmful if swallowed. May react with food products to form hazardous vapors.

**HANDLING:**..... Store away from acids, oxidizing compounds and other incompatible materials. Keep containers tightly closed when not in use. KEEP OUT OF REACH OF CHILDREN.

**SECTION XIII - ADDITIONAL INFORMATION**

**FOOTNOTES:**..... NOT EST. = Not established, N/A = Not applicable

**REFERENCES:**..... The information contained herein has been compiled from sources believed to be reliable and accurate to the best of our knowledge at this date. It is provided without warranty, expressed or implied, as to the results of use of this information or to the product to which it relates. ChemMARK INC. assumes no responsibility for injury to any person or property resulting from any use of the material if reasonable safety procedures are not adhered to. Each user assumes the risk in their use of this product and should review the data and recommendations in the specific context of their intended use.