

# MATERIAL SAFETY DATA SHEET

Total Solutions  
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GENERAL INFORMATION NUMBER: (414) 354-6417  
CHEMTREC: (800) 424-9300

REVISION DATE: October 13, 2005  
DATE OF ISSUE: October 13, 2005

## I - Product Identification

### E2 Hand Soap

PRODUCT CODE: 0271

CHEMICAL FORMULATION: Liquid hand cleaner.

NFPA HAZARD IDENTIFICATION SYSTEM:

HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 0

HAZARD RATING:

4 - Extreme;

3 - High;

2 - Moderate;

1 - Slight;

0 - Insignificant

## II - Hazardous Ingredients

Values reported as TWA unless noted.

SUBSTANCE	APPROX %	OSHA PEL	ACGIH TLV	EPA 40 CFR:			CAS #
				302	355	372	
Alkyl dimethyl benzyl ammonium chloride (C12-18)	1.00-3.00	N/E	N/E	N	N	N	68391-01-5
Alkyl dimethyl ethylbenzyl ammonium chloride (C12-18)	1.00-3.00	N/E	N/E	N	N	N	68956-79-6

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 (°F): N/D

SPECIFIC GRAVITY (WATER = 1): 1.00

VAPOR PRESSURE (mm Hg): N/D

VOC CONTENT (% by weight): N/D

VAPOR DENSITY (AIR = 1): N/D

EVAPORATION RATE (WATER = 1): N/D

SOLUBILITY IN WATER: Soluble

pH: 6.0-7.5

APPEARANCE AND ODOR: Clear, light straw colored liquid; detergent scent.

## IV - Fire and Explosion Hazard Data

FLASH POINT (°F): N/A

(TEST METHOD): Closed cup

FLAMMABLE LIMITS IN AIR (VOLUME %)

UPPER: N/A

LOWER: N/A

EXTINGUISHING MEDIA: Water, foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD: None

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**V - Reactivity Data**

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**STABILITY:** Stable**INCOMPATIBILITY:** None.**CONDITIONS TO AVOID:** None.**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce oxides of carbon.**HAZARDOUS POLYMERIZATION:** Will not occur.**CONDITIONS TO AVOID:** None

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**VI - Health Hazard Data**

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**ROUTES OF ENTRY**      **INHALATION:**                      **EYE CONTACT:** X                      **SKIN CONTACT:**                      **INGESTION:** X**INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS:** None**EFFECTS OF OVEREXPOSURE****IF IN EYES:** Moderate to severe irritation, redness tearing. Possible injury to eye.**IF ON SKIN:** Chapping and irritation, with prolonged or repeated exposure.**IF SWALLOWED:** Nausea, cramps, diarrhea.**IF INHALED:** None under normal use.**EMERGENCY AND FIRST AID PROCEDURES****IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. If irritation persists, obtain medical attention.**IF ON SKIN:** Wash with water. If irritation persists, obtain medical attention.**IF SWALLOWED:** Contact physician or poison control center immediately. Rinse mouth with water. Give affected person 1 to 2 glasses of water. Do not induce vomiting unless instructed by a physician or poison control center. Never give anything to an unconscious person.**IF INHALED:** Remove person to fresh air.

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**VII - Spill or Leak Protection**

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**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Contain spill. Soak up spilled material with inert absorbent material or flush with water.**WASTE DISPOSAL METHOD:** Consult local environmental authorities.

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**VIII - Special Protection Information**

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**RESPIRATORY PROTECTION:** None.**VENTILATION****LOCAL:** Not required**MECHANICAL:** Not required**PROTECTIVE GLOVES:** None.**EYE PROTECTION:** None under normal use, otherwise safety glasses.**OTHER PROTECTIVE EQUIPMENT:** None.**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place. Keep container tightly closed when not in use.**OTHER PRECAUTIONS:** Keep out of reach of children.

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**IX - Transportation Information (ground transportation only)**

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**DOT PROPER SHIPPING NAME:** None**DOT CLASS:** None**DOT ID NUMBER:** None**DOT PACKING GROUP:** None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

REVISION DATE: October 13, 2005

Prepared by: Technical Dept.

DATE OF ISSUE: October 13, 2005

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