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MATERIAL SAFETY DATA SHEET

MANUFACTURER:
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Chemtrec Emergency Telephone No.: 800-424-9300
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Preparation Date: December 2003
 Revision Date: FEBRUARY 2010

SECTION - 1 - PRODUCT DESCRIPTION

Product: **JEELATE ES-3**
 Chemical Name: SODIUM LAURYL ETHER SULFATE
 Synonyms: None
 Generic Chemical Name: Mixture.
 Product Type: Multipurpose.
 HMIS Rating: HEALTH: 3 FLAMMABILITY: 1 REACTIVITY: 0 PERSONAL PROTECTION: N/E
 MSDS NUMBER 89115399-6311510-511920-102103

SECTION - 2 - COMPOSITION/INFORMATION ON INGREDIENTS

| COMPOSITION | CAS # | PERCENTAGE (BY WT) | CARCINOGEN |
|-----------------------------|--------------|-------------------------|------------|
| SODIUM LAURYL ETHER SULFATE | 68585-34-2 | FROM 20 TO 29.9 PERCENT | N/E |
| ETHOXYLATED ALCOHOL | CONFIDENTIAL | FROM 1 TO 4.9 PERCENT | N/E |

SECTION - 3- HAZARDS IDENTIFICATION

APPEARANCE WATER WHITE LIQUID
 ODOR MILD
 PRINCIPAL DANGER
 CAUSES SEVERE SKIN IRRITATION
 CAUSES EYE IRRITATION
 MAY CAUSE RESPIRATORY TRACT INFECTION

SECTION - 4 - FIRST AID MEASURES

Oral: DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention.
 Eyes: Flush immediately with water for at least 15 minutes. Get immediate medical attention.
 Skin: Wash with soap and water. Immediately remove contaminated clothing. Get medical attention if irritation persists. Launder contaminated clothing before reuse and discard shoes and other leather articles saturated with the material.
 Inhalation: Remove exposed person to fresh air if adverse effects are observed. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration.
 If irritation persists or if toxic symptoms are observed, get medical attention.
 Additional Information:
 Note to physician: Treat symptomatically.

SECTION - 5 - FIRE FIGHTING MEASURES

FLASH POINT NOT APPLICABLE

EXTINGUISHING MEDIA

CO₂, DRY CHEMICAL, OR FOAM, WATER CAN BE USED TO COOL AND PROTECT EXPOSED MATERIAL

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SECTION – 5 – FIRE FIGHTING MEASURES

FIREFIGHTING PROCEDURES RECOMMEND WEARING SELF-CONTAINED BREATHING APPARATUS
 UNUSUAL FIRE & EXPLOSION HAZARDS MATERIAL WILL NOT BURN

SECTION – 6 – ACCIDENTAL RELEASE MEASURES

Spill Procedures: Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spills.

SECTION – 7 – HANDLING AND STORAGE

Maximum Pumping Temperature: Not determined.
 Maximum Handling Temperature: Not determined.
 Handling Procedures: Keep container closed when not in use. Do not discharge into drains or the environment, dispose to an authorized waste collection point. Use appropriate containment to avoid environmental contamination. Avoid breathing dust, fume, gas, mist, vapors, or spray. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of product
 Maximum Storage Temperature: Not determined.
 Storage Procedures: No special storage precautions required.
 Loading Temperature: Not determined.

SECTION – 8- EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits None established
 Other Exposure Limits This product contains formaldehyde, which has an OSHA PEL TWA of .75 ppm and ACGIH TLV TWA of .3 ppm
 Engineering Controls Use material in well ventilated area only. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits
 Gloves Procedures: Use nitrile or neoprene gloves.
 Eye Protection: Chemical goggles or faces shield.
 Respiratory Protection: Use NIOSH/MSHA approved full face respirator with a combination organic vapor and dust/mist cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites.
 Clothing Recommendation: Long sleeve shirt is recommended. Wear a chemically protective apron when contact with material may occur. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.

SECTION – 9 – PHYSICAL AND CHEMICAL PROPERTIES

Flash Point: Not applicable
 Upper Flammable Limit: Not determined.
 Lower Flammable Limit: Not determined.
 Auto-ignition Point: Not determined.
 Explosion Data: Material does not have explosive properties.
 Vapor Pressure: Not determined.
 pH: Not determined.
 Specific Gravity: 1.03 (20 Deg. C)
 Water Solubility: Insoluble.



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SECTION – 9 – PHYSICAL AND CHEMICAL PROPERTIES CONTINUED.....

| | |
|-------------------|------------------------|
| Percent Solid: | 30% By Weight |
| Percent Volatile: | 70% By Weight |
| Volatile Organic: | Not determined |
| Vapor Density: | Not determined. |
| Evaporation Rate: | Not determined. |
| Odor: | Mild |
| Appearance: | Water white liquid. |
| Viscosity: | Unknown. |
| Odor Threshold: | Unknown. |
| Boiling Point: | 100°C, 212°F (Typical) |

SECTION – 10 – STABILITY AND REACTIVITY

| | |
|----------------------------|--|
| Stability: | Material is normally stable at moderately elevated temperatures and pressures. |
| Decomposition Temperature: | Not determined. |
| Incompatibility: | None known, avoid contact with reactive chemicals. |
| Polymerization: | Will not occur. |
| Thermal Decomposition: | Thermal decomposition and combustion are not expected to occur except under extreme conditions |
| Conditions to Avoid | Not determined |

SECTION –11- TOXICOLOGICAL INFORMATION

-ACUTE EXPOSURE-

| | |
|---------------------------|---|
| Oral Toxicity: | This material is considered TOXIC by oral ingestion. Based on data from components or similar materials. Swallowing this material can cause burns to the mouth and esophagus. Asphyxiation can occur from swelling of the throat. Perforation of the esophagus and stomach can occur. |
| Eye Irritation: | Moderate to strong eye irritation. Based on data from components or similar material. |
| Skin Irritation: | Skin irritant. Based on data from components or similar materials. |
| Dermal Toxicity: | The LD50 in rabbits is >2000 mg/Kg. Based on data from components or similar materials. |
| Inhalation Toxicity: | Not expected to be a toxic inhalation hazard. Based on data available from components or similar materials. Inhalation of dust or mist can cause severe pneumonitis and destruction of lung tissue. |
| Respiratory Irritation: | Nose, throat and lung irritant. Based on data from components or similar materials. |
| Dermal Sensitization: | No data available to indicate product or components may be a skin sensitizers. |
| Inhalation Sensitization: | No data available to indicate product or components may be respiratory sensitizers. |

-CHRONIC EXPOSURE-

| | |
|------------------------|---|
| Chronic Toxicity: | No data available to indicate product or components present at greater than 1% are chronic health hazards. |
| Carcinogenicity: | No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard. |
| Mutagenicity: | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. |
| Reproductive Toxicity: | No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity. |
| Teratogenicity: | No data available to indicate product or any components contained at greater than 0.1% may cause birth defects. |

-ADDITIONAL INFORMATION-

| | |
|------------------|--|
| Other: | No other health hazards known. |
| Exposure Limits: | See Hazardous Ingredients Section for any applicable exposure limits for components. |

SECTION – 12 – ECOLOGICAL INFORMATION

-ENVIROMENTAL TOXICITY –

| | |
|------------------------------------|---|
| Freshwater Fish Toxicity: | The acute LC50 IS 1-10 mg/L based on component data |
| Freshwater Invertebrates Toxicity: | The acute EC50 is 10-10 mg/L based on component data. Chronic effects expected at <1 mg/L based on component data |



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SECTION 12 CONTINUED

| | |
|-----------------------------------|---|
| Algal Inhibition: | The acute EC50 IS 10-100 mg/L based on component data |
| Saltwater Fish Toxicity: | Not determined |
| Saltwater Invertebrates Toxicity: | Not determined |
| Bacteria Toxicity: | Not determined |
| Miscellaneous Toxicity: | Not determined |
| -ENVIRONMENTAL FATE – | |
| Biodegradation: | At least 75% of the components in this product show rapid biodegradation based on OECD 301-Type test data |
| Bioaccumulation: | 25% or greater of the components display no potential to bioconcentrate |
| Soil Mobility: | Not determined. |

SECTION – 13 – DISPOSAL CONSIDERATION

Waste Disposal: This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

SECTION – 14 – TRANSPORT INFORMATION

| | |
|----------------------|---------------------|
| ICAO/IATA I: | Not regulated. |
| ICAO/ IATA II | Not regulated. |
| IMDG | Not regulated |
| IMDG EMS FIRE | Not applicable. |
| IMDG EMS SPILL | Not applicable. |
| IMDG MFAG | Not applicable |
| MARPOL ANNEX II | Not determined |
| USCG COMPATIBILITY | Not determined |
| U.S. DOT BULK | Not regulated |
| DOT NAERG | Not applicable |
| U.S. DOT | Not regulated |
| U.S. DOT INTER. | Not applicable |
| U.S.DOT INTER. NAERG | Not regulated |
| U.S.DOT NON-BULK | Not regulated |
| CANADA | Not regulated |
| Mexico | Not regulated |
| Bulk Quantity | 50000 kg 110230 lbs |
| INTERMEDIATE QUAN. | 11000 KG, 24251 LBS |
| NON-BULK QUANTITY | 400 K, 882 LBS |

SECTION – 15- REGULATORY INFORMATION

| | |
|----------------------------|--|
| U.S. TSCA Inventory: | All components of this material are on the US TSCA Inventory. |
| Other TSCA Reg.: | None known. |
| SARA Ext. Haz. Subst.: | This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list. |
| SARA Section 313: | This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substance) of any chemical substances listed under SARA Section 313. |
| TDG Regulated Limit.: | Transit Reportable Quantities |
| Component | |
| Reportable Limits RL Units | |
| Reportable Limits RL Units | |



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SECTION 14 CONTINUED

Sodium hydroxide
 Gal. 389
 Liters. 1472
 Formaldehyde
 Gal. 19451
 Liters. 73603

CERCLA Hazardous Substances: Transit Reportable Quantities
 Component
 Reportable Quantity RQ
 Units
 Reportable Quantity RQ
 Units

SECTION – 15- REGULATORY INFORMATION CONTINUED.....

Global Chemical Inventories

USA All components of this material are on the US TSCA Inventory or are exempt.
 OTHER TSCA REG None known
 EU All components are in compliance with the compliance with the EC seventh amendment directive 92/32/eec
 Japan All components are in compliance with the chemical substances control law of japan
 Australia All components are in compliance with chemical notification requirements in Australia
 New Zealand All components are in compliance with chemical notification requirements in New Zealand
 Canada All components are in compliance with the Canadian Environmental Protection Act and
 are present on the domestic substance list
 Switzerland All components are in compliance with the environmentally hazardous substances ordinance in switzerland
 Korea All components are in Korea
 Philippines All components are in compliance with the philippines toxic substances and hazardous and nuclear wastes control act of 1990 (r.a 6969)
 China All components of this product on the Inventory of Existing Chemical Substances in China

Other U.S. Federal Regulations

SARA EXT. HAZ. SUBST This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substance List
 SARA SECTION 313 This product does not contain greater than 1.0% (greater than 0.1% for carcinogenic substance) of any chemical substances listed under SARA Section 313.
 SARA 311

| | |
|----------------|-----|
| ACUTE HAZARD | YES |
| CHRONIC HAZARD | NO |
| FIRE HAZARD | NO |
| REACTIVITY | NO |

CERCLA HAZARDOUS SUB NONE KNOWN
 FDA APPROVAL NOT APPLICABLE

STATE REGULATIONS

CAL. PROP. 65 THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND OR BIRTH DEFECTS BASED ON MAXIMUM IMPURITY LEVELS OF COMPONENTS :
 0.010 % 1, 4 DIOXANE, CAS NO. 123-91-1 0.052% FORMALDEHYDE, CAS NO. 50-00-0
 US FUEL REGISTRATION NOT APPLICABLE

US DEPT OF AGRICULTURE

THIS PRODUCT HAS NOT BEEN FILED WITH THE USDA TO SUPPORT H2 APPROVALS



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SECTION 15 CONTINUED

NSF NONFOOD AGRICULTURE

THIS PRODUCT HAS NOT BEEN FILED WITH THE USDA TO SUPPORT H2 APPROVALS

NSF NONFOOD COMPOUND

THIS PRODUCT HAS NOT BEEN FILED WITH THE NSF TO SUPPORT H1 OR H2 APPROVALS

FINNISH REGISTRATION NUMBER

NOT REGISTERED

SWEDISH REGISTRATION

NOT REGISTERED

NORWEGIAN REGISTRATION

NOT REGISTERED

DANISH REGISTRATION

NOT REGISTERED

SWISS REGISTRATION

NOT REGISTERED

ITALIAN REGISTRATION

NOT REGISTERED

KOREAN REGISTRATION

NOT REGISTERED

SECTION - 16

US NFPA CODES

| HEALTH | REACTIVIT Y | FIRE | SPECIAL |
|--------|----------------|------|---------|
| 3 | 0 | 0 | N/E |

HMIS

| HEALTH | REACTIVIT Y | FIRE | |
|--------|----------------|------|--|
| 3 | 0 | 0 | |

PRECAUTIONARY LABELS

DANGER
 CAUSES SEVERE SKIN IRRITATION
 CAUSES EYE IRRITATION
 MAY CAUSE RESPIRATORY TRACT IRRITATION

REVISION DATE

FEBRURARY 19, 2010-02-19

AS THE CONDITIONS OR METHOD OF USE ARE BEYOND OUR CONTROL, WE DO NOT ASSUME ANY RESPONSIBLTY AND EXPRESSLY DISCLAIM ANY LIABILITY FOR ANY USE OF THIS PRODUCT. INFORMATION CONTAINED HEREIN IS BELIEVED TO BE TRUE AND ACCURATE BUT ALL STATEMENTS OR SUGGESTIONS ARE MADE WITHOUT WARRANTY, EXPRESSED OR IMPLIED, REGARDING ACCURACY OF THE INFORMATION, THE HAZARDS CONNECTED WITH THE USE OF THE MATERIAL OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS REMAINS THE RESPONSIBILITY OF THE USER.