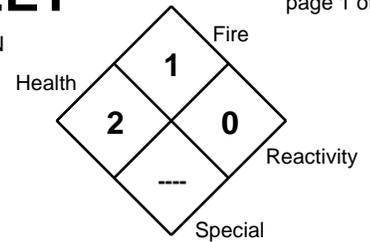




MATERIAL SAFETY DATA SHEET

NFPA 704 DESIGNATION
HAZARD RATING4=Extreme
3=High
2=Moderate
1=Slight
0=InsignificantMSDS Revision/Issue Date: **08/10/12**Supercedes Revision Date: **09/28/06**

1. CHEMICAL PRODUCT IDENTIFICATION & COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: Key – 547**GENERAL USE:** A super-concentrated liquid detergent and foaming agent used as a manual cleaner or added to an alkaline cleaner to enhance penetrating and soil-lifting properties.**PRODUCT DESCRIPTION:** A concentrated, self-foaming, near neutral, liquid cleaner containing a blend of synthetic detergents and cleaning aids.**INFORMATION PROVIDED BY:** **Shepard Bros., Inc.**
503 S. Cypress St.
La Habra, CA 90631
PHONE: 562-697-1366
PHONE: 800-645-3594

For MSDS call:

EMERGENCY PHONE NUMBER**CHEMTREC:****800-424-9300**

2. COMPOSITION & INFORMATION ON INGREDIENTS

| COMPONENT | CAS # | OSHA HAZARD | WT % | ACGIH | | OSHA | |
|---------------------------------|------------|--|---------|----------------------|------|----------------------|------|
| | | | | TLV _(TWA) | STEL | PEL _(TWA) | STEL |
| Sodium Dodecylbenzene Sulfonate | 25155-30-0 | Severe Eye Irritant; Skin & Respiratory Irritant; Toxic by Ingestion | 15 ± 5 | None | None | None | None |
| Sodium Lauryl Ether Sulfate | 9004-82-4 | Eye Irritant; Mild Skin & Respiratory Irritant | 4 ± 1 | None | None | None | None |
| Ethanol | 64-17-5 | Flammable Liquid; Eye, Skin & Respiratory Irritant; Lung, Liver, Kidney, Reproductive & Central Nervous System toxin | 1 ± 0.5 | 1,000 ppm (A4) | None | 1,000 ppm | None |

NDA = No Data Available

N/A = Not Applicable

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: A clear, yellow liquid having a slight surfactant odor. The liquid and mists can cause severe eye irritation and skin irritation. Inhalation of mists may irritate the entire respiratory tract. This product may react vigorously with strong oxidizers.**POTENTIAL HEALTH EFFECTS****INHALATION:** Inhalation of mists may be irritating to the nose, mouth, throat, mucous membranes and lungs. Symptoms of exposure may include sneezing, coughing, choking, shortness of breath, chest discomfort or pain and possible impairment of lung function.**EYE CONTACT:** Exposure to liquid or mists can cause severe eye irritation. Symptoms of exposure may include tearing, redness, swelling and pain. Corneal damage with impairment of vision may result from direct contact with the liquid unless promptly treated.**SKIN CONTACT:** Exposure to liquid or mists may cause skin irritation. Symptoms of exposure may include redness, swelling and discomfort or pain. No published data indicates this product is absorbed through the skin.**INGESTION:** Ingestion may cause irritation to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea and/or abdominal discomfort or pain.**CHRONIC:** The chronic health effects of exposure to the liquid or mists are expected to be the same as for acute exposure.

4. FIRST AID MEASURES

INHALATION: If inhaled, immediately move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

EYE CONTACT: In case of contact, immediately flush eyes with plenty of clean running water for at least 15 minutes, lifting the upper and lower lids occasionally. Remove contact lenses, if worn. Get medical attention.

SKIN CONTACT: In case of contact, immediately flush skin with plenty of clean running water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. If irritation occurs and persists, get medical attention.

INGESTION: If swallowed, DO NOT induce vomiting. Give plenty of water to drink. Get medical attention.

NOTE TO PHYSICIANS: The ingredients contained in this product have a low to moderate oral toxicity but may be severely irritating to the eyes, skin and mucous membranes. If ingested, consideration should be given to careful endoscopy as stomach or esophageal irritation may occur. Careful gastric lavage with an endotracheal tube in place should be considered. Treat exposure symptomatically.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: Greater than 200° F. (93.3° C.) Tagliabue Closed Cup

Flammable Limits (in air, % by volume) Lower: Not determined **Upper:** Not determined

Autoignition Temperature: Not determined

GENERAL HAZARD: This product is a non-combustible, near neutral, self-foaming, aqueous solution. The Uniform Fire Code health hazard classification for this product is: **Irritant**. This product may produce hazardous decomposition products.

FIRE FIGHTING INSTRUCTIONS: **EXTINGUISHING MEDIA:** Water fog, foam, CO₂ or dry chemicals.
Use a water spray or fog to cool the containers exposed to the heat of a fire.

FIRE FIGHTING EQUIPMENT: Fire fighters should wear full protective equipment, including self-contained breathing apparatus.

HAZARDOUS COMBUSTION PRODUCTS: When heated to dryness and decomposition, it emits toxic carbon monoxide, carbon dioxide, sulfur oxides, nitrogen oxides and sodium oxide plus dense, irritating smoke.

6. ACCIDENTAL RELEASE MEASURES

LAND SPILL: Store in a cool, dry, well ventilated area away from incompatible materials and products. Do not get this product in eyes, on skin or on clothing. Wear recommended personnel protective equipment. Do not breathe mists. Use with adequate ventilation. Do not take internally. Keep containers tightly closed when not in use. Wash thoroughly after handling this product.

WATER SPILL: Wear recommended protective equipment and clothing if contact with hazardous material can occur. Stop or divert water flow. Dike contaminated water and remove for disposal and/or treatment. As appropriate, notify all downstream users of possible contamination.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE: Ambient

STORAGE PRESSURE: Ambient

GENERAL: Store in a cool, dry, well ventilated area away from incompatible materials and products. Protect eyes, skin and clothing from contact with this product. Wear recommended personnel protective equipment. Avoid breathing mists or vapors. Use with adequate ventilation. Do not take internally. Keep containers tightly closed when not in use. Wash thoroughly after handling this product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

CONTROL MEASURES: Use a local or general, mechanical exhaust ventilation system capable of maintaining emissions, in the work area, below the OSHA-PEL, ACGIH-TLV or levels that may cause irritation.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

RESPIRATOR: For exposures above the OSHA-PEL or ACGIH-TLV, wear a NIOSH approved full facepiece or half mask air-purifying cartridge respirator equipped with a good particulate cartridge or supplied air.

EYES: Wear chemical goggles (recommended by ANSI Z87.1-1979), unless a full facepiece respirator is worn.

GLOVES: Wear plastic or rubber gloves.

CLOTHING & EQUIPMENT: Wear a plastic or rubber apron if splashing or contact is likely. An eye wash station and safety shower should be available in the work area.

FOOTWEAR: Wear rubber boots, if splashing or contact is likely.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---------------------------------|--------------------------------|--|-----------------------------|
| Appearance: | Clear, yellow | Bulk Density (pounds/ft³): | Not applicable |
| Physical State: | Liquid | Vapor Pressure: | No data available |
| Odor: | Slight surfactant | Vapor Density (air=1): | No data available |
| Odor Threshold: | No data available | Evaporation Rate (n-Butyl Acetate=1): | No data available |
| Molecular Formula: | Mixture | VOC Content: | Approximately 9 grams/Liter |
| Molecular Weight: | Not applicable | % Volatile: | Approximately 74 |
| Boiling Point: | Greater than 100° C. (212° F.) | Solubility in H₂O: | Complete |
| Freezing/Melting Point: | Less than 0° C. (32° F.) | Octanol/Water Partition Coefficient: | No data available |
| Specific Gravity: | Approximately 1.038 | pH (as is): | 6.5 to 8.0 |
| Density (pounds/gallon): | Approximately 8.65 | pH (1% solution): | 6.5 to 8.0 |

10. STABILITY AND REACTIVITY

GENERAL: This product is stable and hazardous polymerization will not occur.

CONDITIONS TO AVOID: None known.

INCOMPATIBLE MATERIAL: Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: When heated to dryness and decomposition, it emits toxic oxides of carbon, sulfur, nitrogen and sodium plus dense, irritating smoke.

SENSITIVITY TO MECHANICAL IMPACT: This product is not sensitive to mechanical impact.

SENSITIVITY TO STATIC DISCHARGE: This product is not sensitive to static discharge.

| 11. TOXICOLOGICAL INFORMATION | | (additional toxicological information in section 16) | |
|--|---|---|---|
| Components: | <u>Sodium Dodecylbenzene Sulfonate</u> | <u>Sodium Lauryl Ether Sulfate</u> | |
| Eye Contact: | Rabbit: 250 ug/24 hours; Severe | No data available | |
| Skin Contact: | Rabbit: 20 mg/24 hours; Moderate | Rabbit: 25 mg/24 hours; Moderate | |
| Oral Rat LD₅₀: | 438 mg/kg | 1,600 mg/kg | |
| Dermal Rabbit LD₅₀: | No data available | No data available | |
| Inhalation Rat LC₅₀: | No data available | No data available | |
| Human Data: | No data available | No data available | |
| Other Toxicological Data: | Oral Mouse LD ₅₀ : 1,330 mg/kg | No data available | |
| Carcinogenicity: | No data available | No data available | |
| Teratogenicity: | No data available | No data available | |
| Mutagenicity: | No data available | No data available | |
| Synergistic Products: | None reported | None reported | |
| Target Organs: | Eyes, Skin, Mucous membranes & Lungs | Eyes, Skin & Mucous membranes | |
| Medical Conditions | | | |
| Aggravated By Exposure: | Skin or Respiratory disorders | Skin or Respiratory disorders | |
| 12. ECOLOGICAL INFORMATION | | | |
| ENVIRONMENTAL FATE: | | | |
| This product is completely soluble in water. No specific environmental fate information is available. This product will not affect the pH of water. | | | |
| ENVIRONMENTAL CONSIDERATIONS: | | | |
| The aquatic toxicity for this product has not been determined. | | | |
| 13. DISPOSAL CONSIDERATIONS | | | |
| RCRA 40 CFR 261 CLASSIFICATION: | Non-Hazardous Waste | | |
| U.S. EPA WASTE NUMBER/DESCRIPTION: | Not applicable | | |
| If this product is disposed of as shipped, it does not meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of a hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D due to toxicity. As a non-hazardous liquid waste, it should be disposed of in accordance with all local, state, and federal regulations. Consult state or local officials for proper disposal method. | | | |
| 14. TRANSPORTATION INFORMATION | | | |
| DOT PROPER SHIPPING NAME: | Not Restricted | | |
| | Hazard Class: | Not applicable | UN Number: Not applicable |
| | Primary Label: | None Required | Packing Group: Not applicable |
| | Primary/Subsidiary Placards: | None Required | Subsidiary Label(s): None Required |
| DOT Reportable Quantity (RQ): | 1,000 pounds (NaDDBS) | RQ for Product: | 5,000 pounds (577.6 gallons) |
| Marine Pollutant: | No | | |
| 2000 North American Emergency Response Guidebook No.: | Not applicable | | |
| TDG PROPER SHIPPING NAME: | Not Restricted | | |
| | Hazard Class: | Not applicable | UN Number: Not applicable |
| | Primary Label: | None Required | Packing Group: Not applicable |
| | Primary/Subsidiary Placards: | None Required | Subsidiary Label(s): None Required |
| TDG Reportable Quantity (RQ): # | Not applicable | | |
| TDG Schedule XII: | Not listed | | |
| Regulated Limit (RL): ## | Not listed | RL for Product: | Not applicable |
| Other Shipping Information: | None | | |
| <p># Canadian Transportation of Dangerous Goods Regulations (TDGR), Part IX, Table I, Quantities or levels for Immediate Reporting: releases of reportable quantities, RQ, that meet the definition of a "dangerous occurrence" (a threat to life, health, property, or the environment) must be reported to the appropriate authorities as outlined in TDGR 9.13(1) and 9.14(1).</p> <p>## Reporting to Environment Canada is required for any releases exceeding the regulated limits, RL, of 9.2 materials (primary or secondary). The regulated limits are found in Schedule XIII of the TDGR.</p> | | | |

15. REGULATORY INFORMATION

| COMPONENTS: | Sodium Dodecyl-benzene Sulfonate | Sodium Lauryl Ether Sulfate | Ethanol |
|-----------------------------------|---|------------------------------------|--|
| <u>OSHA Target Organs:</u> | Eyes, Skin, Mucous membranes & Lungs | Eyes, Skin & Mucous membranes | Eyes, Skin, Lungs, Liver, Kidneys, Reproductive & Central Nervous System |

Carcinogenic Potential:

| | | | |
|------------------------------|----------------|----------------|----------------|
| Regulated by OSHA: | No | No | No |
| Listed on NTP Report: | No | No | No |
| Listed by IARC: | No | No | No |
| IARC Group: | Not applicable | Not applicable | Not applicable |
| ACGIH Appendix A: | Not listed | Not listed | Yes (A4) |
| A1 Confirmed Human: | Not applicable | Not applicable | Not applicable |
| A2 Suspected Human: | Not applicable | Not applicable | Not applicable |

U.S. EPA Requirements

Release Reporting

CERCLA (40 CFR 302)

| | | | |
|----------------------------|----------------|----------------|----------------|
| Listed Substance: | Yes | Not listed | Not listed |
| Reportable Quantity: | 1,000 pounds | Not applicable | Not applicable |
| Category: | C | Not applicable | Not applicable |
| RCRA Waste No.: | None listed | Not applicable | Not applicable |
| Unlisted Substance: | Not applicable | Not applicable | Yes |
| Reportable Quantity: | Not applicable | Not applicable | 100 pounds |
| Characteristic: | Not applicable | Not applicable | Ignitability |
| RCRA Waste No.: | Not applicable | Not applicable | D001 |

SARA TITLE III

Section 302 & 303 (40 CFR 355):

| | | | |
|--------------------------|----------------|----------------|----------------|
| Listed Substance: | Not listed | Not listed | Not listed |
| Reportable Quantity: | Not applicable | Not applicable | Not applicable |
| Planning Threshold: | Not applicable | Not applicable | Not applicable |

Section 311 & 312 (40 CFR 370):

| | | | | | |
|------------------------------|-----------------------|---|---------------------------|-------------------------------|---------------------------------|
| Hazard Categories (product): | Fire: <u>N</u> | Sudden Release of Pressure: <u>N</u> | Reactive: <u>N</u> | Acute Health: <u>Y</u> | Chronic Health: <u>N</u> |
| Planning threshold: | 10,000 pounds | 10,000 pounds | 10,000 pounds | | |

Section 313 (40 CFR 372):

| | | | |
|-------------------------------|----------------|----------------|----------------|
| Listed Toxic Chemical: | Not listed | Not listed | Not listed |
| Reporting Threshold: | Not applicable | Not applicable | Not applicable |

U.S. TSCA Status

| | | | |
|-----------------------------|-----|-----|-----|
| Listed (40 CFR 710): | Yes | Yes | Yes |
|-----------------------------|-----|-----|-----|

State Regulations

State of California: Safe Drinking Water and Toxins Enforcement Act, 1986 (Proposition 65):

| | | | |
|---------------------|----|----|----|
| Carcinogen: | No | No | No |
| Reproductive Toxin: | No | No | No |

Other Regulations

| | |
|----------------------------------|----------------|
| State Right To Know Laws: | MA, NJ, PA, CA |
|----------------------------------|----------------|

Canadian Regulations

Product Information:

| | |
|-------------------------|---|
| Controlled Product: | Yes |
| WHMIS Hazard Symbols: | Material Causing Other Toxic Effects |
| WHMIS Class & Division: | D.2B |

Ingredient Information:

| | | | |
|--------------------|-----|-----|-----|
| IDL Substance: | Yes | Yes | Yes |
| DSL or NDSL Lists: | DSL | DSL | DSL |

16. OTHER INFORMATION**EPA Registration number:** Not applicable**Approved Product Uses:** Not applicable**Additional Toxicological Information (continued from section 11):**

Components: Ethanol

Eye Contact: Rabbit: 100 mg/4 seconds (rinsed); Moderate

Skin Contact: Rabbit: 20 mg/24 hours; Moderate

Oral Rat LD₅₀: 7,060 mg/kg

Dermal Rabbit LD₅₀: No data available

Inhalation Rat LC₅₀: 20,000 ppm/10 hours

Human Data: Oral Man TD_{Lo}: 50 mg/kg; Gastrointestinal effects

Other Toxicological Data: Dermal Rabbit LD_{Lo}: 20 gm/kg

Carcinogenicity: Oral Mouse TD_{Lo}: 320 mg/kg/50 Weeks; Equivocal Tumorigenic Agent

Teratogenicity: Inhalation Rat TD_{Lo}: 20,000 ppm/7 hours (female 1-22 Days pregnant); Specific Developmental Abnormalities

Mutagenicity: Human DNA Inhibition; Lymphocyte: 220 mmol/Liter

Synergistic Products: Chlorinated hydrocarbons

Target Organs: Eyes, Skin, Lungs, Liver, Kidneys, Reproductive & Central Nervous System

Medical Conditions

Aggravated By Exposure: Skin, Respiratory, Liver, Kidney or Reproductive disorders

Special Notes:

This product is not formulated to contain any material, which the State of California has found to cause cancer.

This product contains Ethanol, which the State of California has found to cause birth defects or other reproductive harm (by ingestion only). Refer to MSDS section 15 for specific information.

Special Instructions:

When making solutions, always add this product to water or cleaning solution with adequate mixing to ensure a uniform solution.

MSDS Revision Information: Updated ownership and contact information