

MATERIAL SAFETY DATA SHEET

LABORATORIE

320 37th Avenue • St. Charles, Illinois 60174 • To Reorder, Call 800-323-2594

PRODUCT IDENTIFICATION UNITED 717

USE / DESCRIPTION ESA Multi-Purpose Industrial Descaler REVISION DATE December 30, 2004

REACTIVITY (0 = Maximum Safety)

FOR MEDICAL AND TRANSPORTATION EMERGENCIES: INFOTRAC: 800-535-5053

HEALTH (0 = Maximum Safety)

See Health Hazard Data Section of this M.S.D.S.

Always follow Label Directions and Cautions.

4 Extreme. 3 High. 2 Moderate. 1 Slight.

Minimal.

N

4 May detonate-vacate area if
Materials are exposed to fire

Materials are exposed to fire.

Strong shock of heat may detonate-use monitors from behind explosion resistant

Susceptible to Release of Energy.

Violent chemical change possible-use hose stream from distance

Unstable if heated-use precaution.

Normally stable.

FLAMMABILITY (0 = Maximum Safety) Susceptibility of Material to Burning.

Extremely flammable. 1 Must

- 1 Must be preheated to burn.
- Ignites at normal temperature. 0 Will not burn.
- 2 Ignites when moderately heated.

for more detailed information.

PERSONAL PROTECTION





HAZARDOUS COMPONENTS IDENTITY, EXPOSURE LIMITS AND S.A.R.A. TITLE III INFORMATION

HAZARDOUS CAS ACGIH ACGIH OSHA OTHER S.A.R.A. TITLE III
COMPONENTS NUMBER TWA STEL PEL TWA RECOMMENDED LIMITS QUANTITIES

In accordance with Federal Regulation 29 CFR 1910.1200, all materials in this product are considered non-hazardous.

This product does not contain materials reportable under SARA Title III Section 313.

This product does not contain materials regulated by California's Proposition 65.

This product is not controlled under Canada's WHMIS.

PHYSICAL / CHEMICAL CHARACTERISTICS **BOILING POINT** SPECIFIC GRAVITY (H20 = 1) Greater than 212°F 1.050 VAPOR PRESSURE (mm Hg.) **MELTING POINT** (At 68° F.) 5.65 -.5°F (-17.5°C) VAPOR DENSITY (Air = 1) **EVAPORATION RATE** Not determined (Butyl Acetate = 1) Not determined **SOLUBILITY IN WATER VOLATILE ORGANIC COMPOUNDS (V.O.C.)** (Pounds Per Gallon Of Product) None Complete APPEARANCE AND ODOR Yellow color with little or no odor

FIRE AND EXPLOSION HAZARD DATA

 FLASH POINT (Method Used)
 FLAMMABLE LIMITS
 LEL
 UEL

 None (Tag Closed Cup)
 Not applicable
 Not applicable
 Not applicable

EXTINGUISHING MEDIA

Water, dry chemical, CO₂, Alcohol foam

SPECIAL FIRE FIGHTING PROCEDURES

Vapors are irritating to the respiratory tract and may cause difficulty breathing and pulmonary edema. Provide for protection of employees and residents.

Firefighters should wear self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

In the presence of extreme heat (as in a fire) product may react with active metals (e.g. Aluminum, Zinc, etc.) to release flammable hydrogen gas.

Thermal decomposition may also produce oxides of carbon, nitrogen, and chlorine.

REACTIVITY DATA CONDITIONS TO AVOID STABILITY: STABLE X UNSTABLE **INCOMPATIBILITY (Materials To Avoid)** This product reacts violently with bases, liberating heat and spattering. Avoid contact with oxidizers. Material may be hazardous in contact with chlorete or nitrates. HAZARDOUS DECOMPOSITION OR BY PRODUCTS Under fire conditions, product may decompose nitrogen oxide fumes and acid mist. HAZARDOUS POLYMERIZATION: WILL NOT OCCUR X CONDITIONS TO AVOID MAY OCCUR None known **HEALTH HAZARD DATA HEALTH HAZARDS** EYES: Causes burns to eyes. SKIN: Prolonged or repeated contact can cause irritation. INHALATION: Mists of this product are irritating to the respiratory tract. IF SWALLOWED: The product may be harmful or fatal if ingested. CARCINOGENICITY: NTP? IARC MONOGRAPHS? OSHA REGULATED? This product contains a chemical known to the state of California to cause cancer or reproductive toxicity? No SIGNS AND SYMPTOMS OF OVEREXPOSURE EYES: Causes burns to the eyes. SKIN: Prolonged or repeated contact may cause irritation. INHALATION: Mists of this product are irritating to the respiratory tract. IF SWALLOWED: The product may be harmful or fatal if ingested. MEDICAL CONDITIONS GENERALLY AGGRAVATED BY OVEREXPOSURE Skin irritation may be aggravated in persons with existing skin lesions. Breathing of mists may aggravate acute or chronic asthma or other respiratory disease. TARGET ORGANS: Skin, eyes, respiratory system **EMERGENCY AND FIRST AID PROCEDURES** EYES: Flush with water for at least 15 minutes. Hold eyelids apart to ensure thorough rinsing of the entire surface of the eye and lids with water. Call a physician or poison control center immediately. SKIN: Wash with soap and water and remove contaminated clothing. If irritation persists, call a physician or poison control center. INHALATION: Remove to fresh air. Apply CPR, if needed. Call a physician or poison control center immediately. IF SWALLOWED: DO NOT INDUCE VOMITING. Call a physician or poison control center immediately. Drink 3-4 glasses of water. If vomiting occurs, give fluids. Never give anything by mouth to an unconscious person. PRECAUTIONS FOR SAFE HANDLING AND USE STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Absorb spills with dry sand or earth, then place in chemical waste container for disposal. Neutralize washings with base such as soda ash or lime. Flush residual spill area with large amounts of water. Exercise caution during neutralization as considerable heat may be generated. WASTE DISPOSAL METHOD Consult local, state or federal authorities for proper disposal guidelines. PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING When diluting, always add acid slowly to water and stir well to avoid spattering. NEVER ADD WATER TO ACID! Containers should be stored in a cool, dry, well-ventilated area away from incompatible materials. Exercise caution to prevent damage to or leakage from the container. CONTROL MEASURES FOR USE WHERE SIGNIFICANT EYE, SKIN OR INHALATION EXPOSURE IS LIKELY RESPIRATORY PROTECTION (Specify Type) Not normally required if good ventilation is maintained. Avoid breathing vapor and/or mist. **VENTILATION:** MECHANICAL (General) LOCAL EXHAUST Provide adequate ventilation Generally adequate PROTECTIVE GLOVES EYE PROTECTION Rubber or nitrile gloves Safety goggles OTHER PROTECTIVE CLOTHING OR EQUIPMENT Shirts with long sleeves are recommended. WORK HYGENIC PRACTICES Remove contaminated clothing immediately and wash with soap and water before reusing. Wash hands and face with soap and water after using this product.

PAGE (2)