



MATERIAL SAFETY DATA SHEET

PRODUCT NAME: L-365 CLEANING & DEBURRING COMPOUND

MSDS# 3650103 Effective Date: 1/03/03 Supersedes: 1/3/00 Revisions: Sections 8

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24 Hour Emergency Telephone Call CHEMTREC 1-800-424-9300

1. PRODUCT IDENTIFICATION:

CHEMICAL FAMILY: Alkaline Cleaner

DOT SHIPPING NAME: Compound Cleaning Liquid, (contains Potassium Hydroxide)

DOT HAZARD CLASSIFICATION: Corrosive Material

DOT PACKAGING GROUP: PG III

CHEMICAL FORMULA: n.a. proprietary mixture

DOT HAZARDOUS SUBSTANCE? Yes

RQ: 1000 lbs.

UN NUMBER: NA1760

CAS REGISTRY #: n.a. proprietary mixture

2. HAZARD RATINGS: Health 3 Fire 0 Reactivity 0
[4=Extreme, 3=High, 2=Moderate, 1=Slight, 0=Insignificant]

Note: Hazard ratings involve data and interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all information contained in this Material Safety Data Sheet must be considered.

3. PHYSICAL DATA:

BOILING POINT: >212° F VAPOR PRESSURE: as water VAPOR DENSITY: as water SPECIFIC GRAVITY: 1.15

VOLATILES BY WEIGHT: 1.5% pH @ 1% SOLUTION: 11.6 SOLUBILITY/WATER: 100%

APPEARANCE AND ODOR: Yellow-green Non-Viscous Liquid/Mild Odor

4. INGREDIENTS

1-4% Potassium Hydroxide, CAS #1310-58-3; TLV/TWA (ACGIH): 2 mg/M3; PEL/TWA (OSHA): 2 mg/M3; Oral LD50 (rats): 365 mg/kg LD50; Dermal LD50 (rabbits): believed to be 2 gm/kg; Inhalation: n.e.; Skin Effects: n.e.; Eye Effects: n.e.;

70-80% Water, CAS #7732-18-5; TLV/TWA (ACGIH): n.e.; PEL/TWA (OSHA): n.e.; Oral: n.e.; Dermal: n.e.; Inhalation: n.e.; Skin Effects: n.e.; Eye Effects: n.e.;

1-10% Potassium Silicate, CAS #1312-76-1; TLV/TWA (ACGIH): n.e.; PEL/TWA (OSHA): n.e.; PEL recommended ceiling limit 5 mg/m3 (PQ Corp); Oral: n.e.; Dermal: n.e.; Inhalation: n.e.; Skin Effects: n.e.; Eye Effects: n.e.;

1-5% Tetra Potassium pyrophosphate, CAS #7320-34-5; TLV/TWA (ACGIH): n.e.; PEL/TWA (OSHA): n.e.; Nuisance Dusts not otherwise classified: TLV (ACGIH): 10 mg/M3 TWA; PEL (OSHA): 15 mg/M3 (total dust) 5 mg/M3 respirable dust; Oral LD50 (rats): >2980 mg/kg (Monsanto); Dermal LD50 (rabbits): >7940 mg/kg (Monsanto); Inhalation LC50: n.e.; Skin Effects: n.e.; Eye Effects: n.e.;

1-5% Mixed C8 Amphocarboxylates, CAS # proprietary; TLV/TWA (ACGIH): n.e.; PEL/TWA (OSHA): n.e.; Oral (mouse): 5 ml/kg (Rhône-Poulenc); Dermal: n.e.; Inhalation: n.e.; Skin Effects: n.e.; Eye Effects: n.e.;

1-2% Ethylene Glycol Monobutyl Ether, CAS #111-76-2; TLV/TWA (ACGIH): 25 ppm (skin); PEL/TWA (OSHA): 25 ppm (skin); Oral LD50 (rats): 470 mg/kg (Dow Chemical); Dermal LD50 (rabbit): 435 mg/kg (Union Carbide); Inhalation LC50 (rats): 700 ppm in 7 hrs.; Skin Effects (rabbits): 220 mg/kg; Eye Effects: n.e.;

1-3% Sodium Xylene Sulfonate, CAS #1300-72-7; TLV/TWA (ACGIH): n.e.; PEL/TWA (OSHA): n.e.; Oral: n.e.; Dermal: n.e.; Inhalation: n.e.; Skin Effects: n.e.; Eye Effects: n.e.;

1-3% Alkylaryl polyether alcohol, CAS# 68412-54-4; TLV/TWA (ACGIH) n.e.; PEL/TWA (OSHA) n.e.; Oral LD50 (rats): >5000 mg/kg (Rhone & Haas); Dermal LD50: n.e.; Inhalation LC50: n.e.; Skin Effects: n.e.; Eye Effects: n.e.;

All product components are listed on the EPA/TSCA Inventory of Chemical Substances. This product is biodegradable.

SARA TITLE III -

A) 311/312 Categories: Immediate (Acute) Health and Reactivity

B) 313 - Components listed in Section 313: Contains 1.5% Ethylene Glycol monobutyl Ether (Glycol Ether) which is listed and may require reporting under that statute.

C) None of this components are listed in Section 302.

CERCLA - Contains 3 % by weight of Potassium Hydroxide which is listed in table 302.4 of 40 CFR 302 as a hazardous substance and of which has a reportable quantity (RQ) of 1000 lbs. Releases to air, land or water which exceed RQ must be reported to the National Response Center, 800-424-8802.

None of the ingredients of this product are contained on SARA's Extremely Hazardous Substances List Section 301-303. For RCRA Information See "SPILL, LEAK & DISPOSAL".

5. FIRST AID PROCEDURES

EYE CONTACT: OBJECT IS TO FLUSH MATERIAL OUT OF EYES IMMEDIATELY, THEN SEEK MEDICAL ATTENTION. Immediately flush eyes with large amounts of water for at least 15 minutes, lifting upper and lower eyelids and rotating eyeball to ensure rinsing of entire surface of eye and lids. Washing eyes within several seconds is essential for maximum effectiveness. GET MEDICAL ATTENTION IMMEDIATELY!

SKIN CONTACT: Immediately flush with large quantities of water for at least 15 minutes, promptly removing contaminated clothing and shoes. Launder contaminated clothing before reuse. Decontaminate or destroy contaminated shoes. Consult Physician if irritation develops or persists.

INHALATION: Move from contaminated area to fresh air. If breathing difficult, oxygen may be administered by trained personnel. If breathing has stopped, give artificial respiration. Get Medical Attention!

INGESTION: DO NOT INDUCE VOMITING! Give victim a quart of water. . Never give anything by mouth to a person who is unconscious or having convulsions. Seek Medical Attention!

6. HEALTH HAZARD DATA

OSHA PERMISSIBLE EXPOSURE LIMIT (PEL): n.e. See Section II. "Ingredients" for individual component PEL's.

ACGIH THRESHOLD LIMIT VALUE (TLV): n.e. See Section II. "Ingredients" for individual component TLV's.

CARCINOGEN LISTING? Not containing or considered a carcinogen by OSHA, NTP, OR IARC.

PRIMARY ROUTES OF ENTRY: Skin Contact [X] Eye Contact [X] Inhalation [] Ingestion [] Skin Absorption []

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None currently known.

SYMPTOMS OF OVEREXPOSURE:

Acute: Contains Caustic Potash (Potassium Hydroxide). Causes severe burns to skin and eyes. Symptoms of skin contact will range from irritation to severe burns, possibly deep ulceration with subsequent scarring, depending on concentrations and length of exposure. A latent period may exist between exposure and sense of irritation. Symptoms of eye contact will be more acute. Small quantities of this product can be destructive to eye tissue upon contact and possibly cause blindness. Breathing mists or sprays may cause irritation to upper respiratory tract. Will be corrosive to any tissues contacted if ingested.

Chronic: None currently known.

7. FIRE AND EXPLOSION DATA

FLASH POINT: n.a. Noncombustible. Aqueous based cleaner. FLAMMABLE LIMITS IN AIR: n.a.

EXTINGUISHING MEDIA: Use media appropriate of surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Self contained breathing apparatus and appropriate protective clothing to prevent contact should be worn when fighting fires involving chemicals.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

8. CONTROL MEASURES

Personal protective equipment selections vary based on potential exposure conditions such as handling practices, concentration and ventilation. Use protective clothing which is chemical resistant to this material. Selection of protective clothing depends on potential exposure conditions and may include gloves, boots, suits and other items. The selection should take into account such factors as job task, type of exposure, solution concentration, and durability requirements. Information on the selection of eye, skin, and respiratory protection for use of this material is provided below.

VENTILATION REQUIREMENTS: Well ventilated area is adequate under normal usage conditions.

RESPIRATORY PROTECTION: None normally required.

PROTECTIVE GLOVES: Nitrile, neoprene or natural rubber.

EYE PROTECTION: Close fitting chemical safety goggles and face shield.

OTHER PROTECTIVE EQUIPMENT: Rubber boots, rubber apron, PVC clothing, hard hat, as conditions dictate in order to prevent personal contact with this product and its solutions. Eye wash fountain, safety shower and wash area should be provided in immediate work area.

HYGIENIC PRACTICES IN HANDLING AND STORAGE:

Educate and train employees in the safe use and handling of this product. Avoid contact with skin, eyes and clothing! Wear appropriate protective clothing to prevent contact with this product and its solutions. Do not wear contact lenses when handling chemicals as they may increase the severity of injury if product comes in contact with eyes. Never touch eyes or face with hands or gloves that may be contaminated with this product. Clothing, shoes or other protective gear that is contaminated or soaked with this material or its solutions should always be promptly removed and not used until laundered or decontaminated. Contaminated leather shoes and leather goods should always be destroyed. Avoid breathing dusts or solution's mists and sprays. Do not take internally. Wash thoroughly after handling. Wear appropriate protective clothing. Always have water available for First Aid. Store in properly labeled closed containers in cool dry place. Always make sure closures are securely tightened before moving container. For industrial use only. Keep product and its containers out of reach of children. When handling empty containers, all labeled precautions must be observed due to product residues. Do Not reuse containers until they have been professionally cleaned, reconditioned, and old labeling has been removed. Do Not reuse for food or drink.

SPECIAL PRECAUTIONS FOR REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT:

Remove all traces of product and its residue before working on equipment. Maintenance personnel should wear protective equipment and clothing so as to prevent personal contact and should be informed regarding necessary precautions applicable to this product.

9. SPILL OR LEAK PROCEDURES

Recovery and reuse rather than disposal, should be the ultimate goal of handling efforts.

May cause slippery footing. Persons involved in clean-up must wear appropriate protective equipment. Keep unauthorized persons out of area. Mop or soak up small spills. If large amount is spilled, Dike and pump liquid into DOT approved containers or holding tanks. Neutralize residue with dilute inorganic acid and flush area with water.

If spilled on the ground, contaminated soil should be removed and placed in proper containers for disposal. Do not flush material to public sewer or waterway. Decontaminate all tools and equipment following cleanup. If disposed of, the undiluted product would be, and its solutions may possibly be classified as a D002 hazardous waste, due to their corrosive characteristics (high Ph/alkalinity). All disposal should be in accordance to federal, state and local regulations.

10. REACTIVITY DATA:

STABILITY: Stable.

CONDITIONS TO AVOID: Contact with materials listed below.

INCOMPATIBILITY- MATERIALS TO AVOID: Contains highly alkaline ingredients, store away from acids.

HAZARDOUS DECOMPOSITION PRODUCTS: Contains highly alkaline ingredients which may react with acidic materials to form Carbon Dioxide.

CAS# = Chemical Abstract Registry Number; TLV = Threshold Limit Value; TWA = Time Weight Average; PEL = Permissible Exposure Limit; ACGIH = American Conference of Governmental Industrial Hygienists; OSHA = Occupation Safety and Health Administration; LD50 = Lethal Dose 50%; LC50 = Lethal Concentration 50%; n.e. = not established; n.a. = not applicable.

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