

ABC CORPORATION

94-085 Leonui Street, Waipahu HI 96797; 808-671-2671

MATERIAL SAFETY DATA SHEET

For Emergency Call CHEMTREC 1-800-424-9300

Prepared 5/7/1999 – Rev 5/9/2000

SECTION 1 : IDENTIFICATION

PRODUCT NAME

APPLICATION

SHIPPING DESCRIPTION

RED ALERT

Red dirt, rust, stain remover

Corrosive Liquids, toxic, n.o.s. (contains ammonium hydrogen difluoride, phosphoric acid), 8, UN 2922, PGIII

Component Information

| Principal Hazard Components | CAS No. | WT (%) | PEL/TLV |
|-----------------------------|-----------|--------|---------------|
| Ammonium Bifluoride | 1341-49-7 | 3-9 | 2.5/2.5 mg/m3 |
| Phosphoric acid | 7664-38-2 | 1-6 | 1/1 mg/m3 |

SARA Title III Section 313 and 40 CFR Notification

Phosphoric acid is regulated under SARA Title III (release reporting) and TSCA chemical inventory.

SECTION 2: PHYSICAL DATA

Boiling Point (?F): >212°F

Vapor Pressure (mm Hg): NE

Vapor Density (Air = 1): NE

Percent Volatile:

Evaporation Rate (Butylacetate = 1): NE

Appearance/Odor: Red-orange Liquid/no fragrance

pH: 4.3

Specific Gravity (Water = 1): 1.02

Solubility in Water: complete

SECTION 3: FIRE AND EXPLOSION HAZARD DATA

Flash Point (?F): >200°F

Lower Explosive Limit: NE

Upper Explosive Limit: NE

Extinguishing Media: For small fires, use carbon dioxide or dry chemical. For large fires, spray on foam and/or water fog.

Special Fire Fighting Procedures: Fire fighters should use self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards: None known to ABC Corporation.

NFPA Ratings

Health = 2

Flammability = 0

Reactivity = 1

Specific Hazard = 3 (acid)

0= None

1= Mild

2= Moderate

3= High

4= Extreme

SECTION 4: REACTIVITY DATA

Stability: Stable metals.

Incompatibility: Alkali, ammonia, certain

Hazardous Decomposition Products/Polymerization: Carbon dioxide, carbon monoxide, fluorides, hydrogen gas, hydrogen fluoride. Hazardous polymerization will not occur.

Conditions to Avoid: Strong alkalis, oxidizing agents, excessive heat. Reaction with common metals may generate hydrogen gas, a fire and explosion hazard.

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SECTION 5: HEALTH HAZARD DATA

Effects of overexposure:

Eyes: Contact with eyes may cause corneal damage and blindness.

Skin: Corrosive to skin. May cause burns or dryness if allowed to remain on skin for prolonged periods.

Inhalation: May cause irritation of respiratory tract if inhaled for prolonged periods.

Ingestion: Ammonium bifluoride solution may be toxic. Will irritate gastrointestinal tract. Contact physician if ingested.

SECTION 6: FIRST AID

Eyes: Immediately flush eyes with running water for at least 5 minutes. Hold eyelids apart to ensure the rinsing of the entire surface of the eyes and eyelids with water. Get immediate medical attention.

Skin: Wash affected areas with plenty of water, and soap if available, for several minutes. Remove and clean contaminated clothing and shoes. Seek medical attention if irritation persists.

Inhalation: Remove to fresh air. Seek medical attention respiratory irritation develops or if breathing becomes difficult.

Ingestion: If ingested, give 3-4 glasses of water, but **DO NOT** induce vomiting. If vomiting occurs, give fluids again. Get immediate medical attention. **DO NOT** give anything to an unconscious or convulsing person.

SECTION 7: SPECIAL PROTECTION INFORMATION

Respiratory Protection: Not required.

Protective Gloves: Wear rubber gloves at all times.

Eye Protection: Where eye contact may be a problem, wear goggles.

SECTION 8: SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Handling and Storage: Use good personal hygiene practice. Avoid contact with eyes, skin, or clothing. Wash contaminated clothing and equipment before reuse.

Release or Spill: Before attempting clean-up refer to Hazard Data above. Use mop or wet vacuum to collect material for proper disposal. Rinse area with water,

Waste Disposal: Disposal to conform to federal, state and local regulations.

The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet or which involves the product in combination with any other process is the responsibility of the user.