

MATERIAL SAFETY DATA SHEET

FIVE STAR AFFILIATES, INC.
6731 E. 50TH AVENUE
COMMERCE CITY, CO. 80022

PHONE: 303-287-0186
MSDS DATE: 6-09-98
REPLACES: 09-22-92

IDENTIFICATION

PRODUCT NAME: ACID CLEANER NO. 5
COMPOSITION: MIXTURE OF PHOSPHORIC AND NITRIC ACIDS

This product requires submission of an annual report on the release of toxic chemicals that appear in 40 CFR 372 (for SARA 313). Components present in this product at a level which could require reporting the statute are:

HAZARDOUS INGREDIENTS:	%	TLV LIMIT IN AIR
Phosphoric Acid (CAS 7664-38-2)	6	1 mg/m ³ (ACGIH)
Nitric Acid (CAS 7697-37-2)	38	2 ppm (ACGIH)

PHYSICAL DATA

APPEARANCE: Dark Blue Liquid	ODOR: Acidic
SOLUBILITY IN WATER: Complete	pH of CONCENTRATE: 1.0
EVAPORATION RATE: 1 (water=1)	BOILING POINT: 220° F.
SPECIFIC GRAVITY: 1.16	VAPOR PRESSURE: 24 mm Hg.

FIRE AND EXPLOSION DATA

FLAMMABILITY: Non - combustible, substance itself does not burn but may decompose to produce corrosive and/or toxic fumes.

EXTINGUISHING MEDIA: Water, Carbon Dioxide, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contact with soft metals may evolve flammable hydrogen gas. Containers may explode when heated. Contact with chlorine will evolve a chlorine gas.

NFPA Hazard RATING: Health 3; Flammability 0; Reactivity 1

HEALTH HAZARD DATA

- TOXIC; inhalation, ingestion, or skin contact with material may cause severe injury or death.
 - Contact with molten substance may cause severe burns to skin and eyes.
 - Avoid any skin or eye contact.
 - Do not mix with chlorine containing products as it will cause the release of chlorine gas.
 - Do not use on galvanized iron.
 - Effects of contact or inhalation may be delayed.
 - Fire may produce irritating, corrosive, and/or toxic gas.
 - Runoff from fire control or dilution water may be corrosive.
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EMERGENCY & FIRST AID PROCEDURES

EYE CONTACT: Flush with cool running water for at least 15 minutes. For eye exposure irrigate with saline solution. Get medical attention as soon as possible, especially if redness or irritation develops.

SKIN CONTACT: Flush with cool running water. If irritation develops get medical attention.

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INGESTION: If conscious, drink large amounts of milk or water, followed by Milk of Magnesia, olive oil, or beaten egg whites. Get medical attention immediately. DO NOT induce vomiting.

INHALATION: Move victim to fresh air. Call emergency medical care. Apply artificial respiration if victim is not breathing.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure limits Listed in Hazardous Ingredients by using engineering controls. If not feasible, Use approved full face-piece air-purifying respirator.

VENTILATION SYSTEM: Provide general and/or local exhaust ventilation to maintain airborne levels below the exposure limits in Hazardous Ingredients. Refer to "Industrial Ventilation" by ACGIH for a manual of recommended practices.

SKIN PROTECTION: If skin or contamination of clothing is likely, protective clothing should be worn.

EYE PROTECTION: Chemical goggles are required.

PROTECTIVE GLOVES: Wear chemical resistant gloves.

REACTIVITY DATA

INCOMPATIBLE MATERIALS: Alkalis, chlorinated products, and soft metals.

STABILITY: Product is stable.

POLYMERIZATION: Will not occur.

DECOMPOSITION PRODUCTS: May give off phosphorous and nitrous oxide at high heat (fire conditions).

SPILL OR LEAK PROCEDURES

SPILL: See Emergency/ First Aid Procedures and Special Protection Information for hazards and exposure controls. Dike with sand or earth to contain spill. Avoid ignition sources. Absorb with sand to other non-flammable material and transfer to approve DOT drum for recovery or disposal.

DISPOSAL: Dispose of in accordance with local, state and federal regulations.

GENERAL: CERCLA/SARA requires notification to the appropriate Federal state and local authorities of releases of hazardous or extremely hazardous quantities equal to or greater than the Reportable Quantities (RQs) in 50 CFR 302.4 and 40 CFR 355. SARA Title 313 requires submissions of annual reports of releases of toxic chemicals that appear in 40 CFR 372. Components present in this product at a level which could require reporting under statute are listed under identification.

TRANSPORTATION

DOT HAZARD CLASSIFICATION: Corrosive Liquid, Acidic, Inorganic, NOS
8, UN 3264, PG II

US DOT LABEL: Corrosive, UN3264, Class 8

**PLACARD REQUIRED
OVER 1,000 LBS.:**

Corrosive, Class 8, Label as required by OSHA Hazard Communication Standard, and any applicable State and local regulations.

Prepared by: _____

EMERGENCY TELEPHONE: INFOTRAC 800-535-5053