

1. Identification:**Product Identity:** Heavy Duty Acid Cleaner**Recommended Use:** Water-Based Acid Cleaner**Producer / Distributor**

Dalco
300 5th Ave. NW
New Brighton, MN 55112

Telephone Number for Information: 800-950-1975**Emergency Telephone Number:** 800-278-6176**2. Hazard Identification:****Classification:****Health Class**

Acute Toxicity Category 5
Skin Corrosion Category 1
Serious Eye Damage Category 1
Skin Sensitizer
Reproductive Toxicity Category 2
Specific Target Organ Toxicity Category 1

Physical Class

Corrosive to Metal

Environment Class

Acute Aquatic Toxicity Category 3

Label**Symbols****Hazard Statements:**

Maybe harmful if swallowed
Causes severe skin burns and eye damage
Suspected of damaging fertility or the unborn child.
Cause damage to organs

Precautionary Statements:

If Swallowed: Immediately Call a Poison Center/Doctor if you feel unwell.
Wear protective gloves/clothing/eye protection/face protection.
If Swallowed: Rinse mouth. Do NOT induce vomiting
If On Skin (or Hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash contaminated clothing before reuse.
If Inhaled: Remove person to fresh air and keep comfortable for breathing. : Immediately call a Poison Center/doctor if you feel unwell.
If In Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Store locked up.
Dispose of contents/containers in accordance with local regulations
Do not handle until all safety precautions have been read and understood.
IF exposed or concerned: Get medical advice/attention.
Do not breathe dust/fume/gas/mist/ vapors/spray.
Wash hands thoroughly after handling.
Do not eat, drink, or smoke when using this product. If exposed or concerned: Call a doctor.

3. Composition/Information on Ingredients

Ingredient	CAS Number	Percent by Weight
Nitric Acid	7697-37-2	10 - 20
Phosphoric Acid	7664-38-2	5 - 10
Cocamidopropyl Hydroxy Sultaine	70851-08-0	1 - 5
Water	7732-18-5	60 - 100

4. First-Aid Measures:

Ingestion: If Swallowed: Do not induce vomiting. Drink water in large amounts and call a physician immediately. Never give anything by mouth to an unconscious person.

Eye Contact: Flush eyes with running water for at least 15 minutes. If irritation persists, obtain medical attention.

Skin Contact: Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse.

Inhalation: If ill effects occur from breathing vapors, remove to fresh air and obtain medical attention.

5. Fire Fighting Measures:

Suitable Extinguishing Media: Not Applicable

Special Fire Fighting Procedures: Not Applicable

Unusual Fire and Explosion Hazards: None are known

6. Accidental Release Measures:

Dike and contain spill with inert material (sand, earth, etc.). Collect spill with a mop, absorbent material (example: floor-dry) or vacuum. Thoroughly rinse affected area with water.

7. Handling and Storage:

Handling: Keep out of reach of children. Wear personal protective equipment when using this product use with adequate ventilation

Storage: Protect storage containers from impact, excessive temperatures, open flames, direct sunlight. Store in well ventilated area. Store separately from organic chemicals, strong bases, metal powders, carbides, sulfides, and readily oxidizable materials.

8. Exposure Controls / Personal Protection:**Exposure Limits:****Ingredients**

Nitric Acid

Phosphoric Acid

CAS Number

7697-37-2

Osha PEL

5 mg/M3

ACGIH TLV

5 mg/M3

Exposure Controls:

Engineering Controls: Ventilate to maintain vapor levels below exposure limits.

Personal Protective Equipment:

Eye Protection: Wear protective splash proof safety goggles per OSHA eye and face protection regulations (29 CFR 1910.133). Additional full

Skin Protection: Wear chemical and heat resistant gloves (neoprene or rubber).

Respiratory Protection: If concentrations exceed recommended exposure levels, use a NIOSH-approved respirator suitable for use with nitric acid and the exposure conditions.

9. Physical and Chemical Properties:

Physical State: Liquid

Appearance: Clear

Odor: Strong Acid

Solubility: Complete

Evaporation Rate: NA

Vapor Pressure (MM HG): NA

Vapor Density (Air = 1): < 1

pH: 1 - 2

Specific Gravity (H2O = 1): 1.13

Flammability: None

Flash Point: None

Boiling Point: > 212° F (100°C)

%volatile: 50 - 75%

10. Stability and Reactivity:

Chemical Stability: Stable

Possibility of Hazardous Reactions: Reacts violently with strong bases, Reaction with metals produce hydrogen gas which can become explosive.

Incompatibility (Materials to Avoid): Do not mix with any other chemicals especially organic chemicals, strong bases, metal powders, carbides, sulfides and readily oxidizable materials. Do not use on Marble, terrazzo, and other acid sensitive materials

Hazardous Decomposition or By-products: Nitrogen Oxides

Hazardous Polymerization: Will not Occur

Conditions to Avoid: Exposure to elevated temperatures, open flames, and incompatible chemicals

11. Toxicological Information:

Signs and Symptoms of Overexposure: Causes severe skin burns and eye damage.

Acute Effects:

Eye Contact: Causes severe burns, permanent damage and possibly blindness very rapidly.

Skin Contact: Causes severe skin burns

Inhalation: Exposure may cause pulmonary irritation and symptoms of lung damage. High concentrations of mist or fumes will cause severe p

Ingestion: Will cause severe damage to mucous membranes (digestive tract) and deep tissues and may be fatal.

Target Organ Effects: Suspected of damaging fertility or the unborn child.

Chronic Effects: Chronic ingestion (of nitrates) may cause damage to the central nervous system, heart, kidneys, and blood forming tissues and may lead to diarrhea, convulsions, headache, mental impairment, dizziness and tachycardia

Acute Toxicity Values:

Oral LD₅₀ = 2000 - 5000 mg/kg

Dermal LD₅₀ = 2000 - 5000 mg/kg

Inhalation (Vapor) LC₅₀ = 20 - 50 mg/l

12. Ecological Information:

Persistence and Degradability: Not Available

Bio Accumulative Potential: Not Available

Mobility in Soil: Not Available

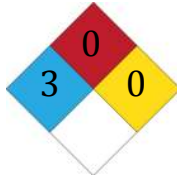
Aquatic Toxicity: Harmful to Aquatic Life

13. Disposal Considerations:

Material that cannot be used during normal use should be disposed of in accordance with all applicable local, state and federal regulations. Waste from normal cleaning procedures may be neutralized and disposed of in a sanitary sewer depending on the materials and/or contaminants being cleaned as well as local, state and federal sewer regulations.

14. Transportation Information:**UN Number:** UN3264**Shipping Name:** Corrosive liquid, Acidic, Inorganic, N.O.S. (Nitric Acid)**Transport Hazard Class:** 8**Packing Group:** II**Marine Pollutant:** NO**15. Regulatory Information:****TSCA Status:** All ingredients listed**Clean Water Act:** Nitric Acid(7697-37-2) & Phosphoric Acid (7664-38-2) are listed in the Clean Water Act as a Hazardous Substance.**Clean Air Act:** Nitric Acid(7697-37-2) is listed as a hazardous air pollutant (HAP)**CERCLA Reportable Quantity:** Nitric Acid (7697-37-2), > 1000 lbs. & Phosphoric Acid (7664-38-2), > 5000 lbs.**SARA Title III Information:****Section 302 Extremely Hazardous Chemicals:** Nitric Acid (7697-37-2)**Section 311 / 312 Hazard Category:** Immediate Health, Reactive (Nitric Acid)**Section 313 Toxic Chemicals:** Nitric Acid(7697-37-2)**State Regulations:** Notice State of California; Warning; This product may contain chemicals known to the state of California to cause cancer or reproductive defects as trace impurities in the standard industrial materials used in the manufacture of this product.**International Regulations:** None**16. Other Information:****Prepared By:** Ron Camp**Telephone Number:** 651-481-1900**Revision Date:** 6/7/2013**Supersedes:** 4/1/2012

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Health	3
Flammability	0
Physical hazards	0