

AC-8015



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MATERIAL SAFETY DATA SHEET

Section 1. PRODUCT IDENTIFICATION

PRODUCT NAME: AC-8015

CHEMICAL DESCRIPTION: Acidic aqueous solution

PRODUCT CLASS: Surface finishing

MSDS CODE: 0C56-05-20-93

Section 2. INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS Number</u>	<u>% by Weight</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Phosphoric acid	7664-38-2	< 45	TWA 1 mg/m ³ STEL 3 mg/m ³	TWA 1 mg/m ³ STEL 3 mg/m ³
Dipropylene glycol methyl ether (DPGME)	34590-94-8	< 15	TWA 100 ppm, 600 mg/m ³ ; STEL 150 ppm, 900 mg/m ³ (skin)	TWA 100 ppm, 606 mg/m ³ ; STEL 150 ppm, 909 mg/m ³ (skin)
Citric acid	77-92-9	< 5	None established	None established

Note: The OSHA permissible exposure levels displayed here are from the 1989 standard which was formally revoked on June 30, 1993. Some states continue to enforce the 1989 OSHA standard while others have reverted back to the 1971 limits.

Section 3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****

DANGER!

May cause severe eye damage.
May cause skin and respiratory tract irritation.
May be harmful if swallowed.

PRIMARY ROUTES OF ENTRY: Eye and skin contact, ingestion, inhalation

TARGET ORGANS: Eye, skin, mucous membranes

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin and respiratory conditions.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: This product is expected to produce severe irritation and damage upon contact with the eyes.

SKIN CONTACT: Exposure to this product may cause moderate to severe irritation of the skin. The extent of injury depends on the duration of contact. No data is available to suggest that this product may produce an allergic skin reaction. Phosphoric acid may not produce an immediate burning sensation upon skin contact, delaying the awareness that contact has occurred.

INGESTION: The low pH of the product would indicate that it may produce severe irritation or burns to the mouth, throat, esophagus, and stomach if swallowed.

INHALATION: This product is not expected to present an inhalation hazard unless mists or vapors are generated. Phosphoric acid has a low vapor pressure at room temperature and is not expected to present a significant inhalation hazard under ambient conditions. Phosphoric acid, however, can be irritating to the respiratory tract if inhaled as a mist or if the material is vaporized.

SUBCHRONIC, CHRONIC:

Prolonged exposure to high concentration of mists may cause discomfort and ulceration of nasal passages. The effects of chronic exposure to eyes and skin are dependent upon concentration and duration of exposure. Dermatitis, conjunctivitis or effects similar to those for acute exposure may occur.

CARCINOGENICITY:

NTP:

No ingredients listed in this section

IARC:

No ingredients listed in this section

OSHA:

No ingredients listed in this section

Section 4. FIRST AID MEASURES

EYE CONTACT: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek medical aid immediately.

SKIN CONTACT: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Seek medical aid immediately. Wash clothing before reuse.

INGESTION: If swallowed, do NOT induce vomiting. Give large quantities of water. Seek medical aid immediately. Never give anything by mouth to an unconscious person.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical aid.

Section 5. FIRE-FIGHTING MEASURES

FLASH POINT: > 200°F

This product is not by definition a "flammable liquid" or a "combustible liquid".

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LOWER FLAMMABLE LIMIT: Not available UPPER FLAMMABLE LIMIT: Not available

AUTO-IGNITION TEMPERATURE: Not available

EXTINGUISHING MEDIA: Use extinguishing media appropriate for the surrounding fire.

FIRE-FIGHTING INSTRUCTIONS: Exercise caution when fighting any chemical fire. A self-contained breathing apparatus and protective clothing are essential.

FIRE & EXPLOSION HAZARDS: Phosphoric acid may react with metals to release flammable hydrogen gas.

DECOMPOSITION PRODUCTS: Thermal decomposition or combustion may produce oxides of carbon and phosphorus.

NFPA RATINGS: Health = 3 Flammability = 0 Reactivity = 0 Special Hazard = Corrosive

Hazard rating scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

Section 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Wearing appropriate personal protective equipment, contain spill, collect onto inert absorbent and place into suitable container.

Section 7. HANDLING AND STORAGE

HANDLING: Do not get in eyes.
 Avoid contact with skin and clothing.
 Avoid breathing vapor or mist.
 Use with adequate ventilation.
 Wash thoroughly after handling.
 Keep container closed when not in use.

STORAGE: Do not store near incompatible materials.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: Chemical splash goggles and face shield

SKIN PROTECTION: Chemical resistant gloves

RESPIRATORY PROTECTION: If airborne concentrations exceed published exposure limits, use a NIOSH approved respirator in accordance with OSHA respiratory protection requirements (29 CFR 1910.134).

ENGINEERING CONTROLS: Use local and/or general exhaust ventilation to maintain airborne concentrations below exposure limits.

WORK PRACTICES: An eye wash station should be accessible in the immediate area of use.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: > 212°F (> 100°C) SOLUBILITY IN WATER: Complete
 VAPOR PRESSURE: Similar to water SPECIFIC GRAVITY: 1.21 - 1.34 @ 25°C
 VAPOR DENSITY (air=1): Similar to water pH: 1.5 - 2.0 (1% solution) @ 25°C
 %VOLATILE BY WEIGHT: 35 FREEZING POINT:
 APPEARANCE AND ODOR: Clear, colorless to pale yellow liquid.

Section 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable HAZARDOUS POLYMERIZATION: Will not occur
 CONDITIONS TO AVOID: No specific information.
 INCOMPATIBILITY: Strong oxidizers
 DECOMPOSITION PRODUCTS: Thermal decomposition or combustion may produce oxides of carbon and phosphorus.

Section 11. TOXICOLOGICAL INFORMATION

ON PRODUCT:
 No information available on the formulated product.

ON INGREDIENTS:

<u>Chemical Name</u>	<u>Oral LD₅₀ (rat)</u>	<u>Dermal LD₅₀ (rabbit)</u>	<u>Inhalation LC₅₀ (rat)</u>
Phosphoric acid	1530 mg/kg	2740 mg/kg	Not available
Dipropylene glycol methyl ether (DPGME)	5135 mg/kg	9500 mg/kg	33000 ppm
Citric acid	1700 mg/kg	Not available	Not available

Section 12. ECOLOGICAL INFORMATION

ON PRODUCT:
 No information available on the formulated product.

ON INGREDIENTS:

<u>Chemical Name</u>	<u>Aquatic Toxicity Data</u>
Dipropylene glycol methyl ether	96 hr LC ₅₀ (fathead minnow): > 10,000 ppm 48 hr EC ₅₀ (Daphnia magna): 1919 ppm

Section 13. DISPOSAL CONSIDERATIONS

RCRA STATUS: Discarded product, as sold, would be considered a RCRA Hazardous Waste based on the characteristic of corrosivity. The EPA Hazardous Waste Number is D002.

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

Section 14. TRANSPORT INFORMATION**DOT CLASSIFICATION:**

Class/Division: 8
 Proper Shipping Name: Phosphoric acid, solution
 Label: Corrosive
 Packing Group: III
 ID Number: UN 1805

Section 15. REGULATORY INFORMATION

OSHA Hazard Communication Status: Hazardous

TSCA: The ingredients of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLA reportable quantity of EPA hazardous substances in product:

<u>Chemical Name</u>	<u>RQ</u>
Phosphoric acid	5000 lb
Product RQ: 11,111 lb	(Notify EPA of product spills exceeding this amount.)

SARA TITLE III:**Section 302 Extremely Hazardous Substances:**

<u>Chemical Name</u>	<u>CAS #</u>	<u>RQ</u>	<u>TPQ</u>
There are no SARA 302 Extremely Hazardous Substances in this product.			

Section 311 and 312 Health and Physical Hazards:

Immediate [yes]	Delayed [no]	Fire [no]	Pressure [no]	Reactivity [no]

Section 313 Toxic Chemicals:

<u>Chemical Name</u>	<u>CAS #</u>	<u>% by Weight</u>
Phosphoric acid	7664-38-2	< 45

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Section 16. OTHER INFORMATION

HMIS RATINGS: Health = 3 Flammability = 0 Reactivity = 0
Personal Protective Equipment = X (to be specified by user depending on use conditions)

Hazard rating scale: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

MSDS REVISION SUMMARY: Supersedes MSDS issued on 09/06/94. The MSDS has been changed in Section 14.

While this information and recommendations set forth herein are believed to be accurate as of the date hereof, CALCOON CORPORATION MAKES NO WARRANTY WITH RESPECT HERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

PREPARED BY: Health & Environmental Affairs Department