

Humco Holding Group, Inc.
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Texarkana, TX 75501
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Item#0395-0605

Citric Acid Granular

Date Prepared: 04/10/07

SECTION 1 PRODUCT IDENTIFICATION

Product: Citric Acid, Anhydrous USP/FCC **CAS No.:** 77-92-9

General or Generic ID: Organic Acid

Emergency Telephone Numbers:

Humco Holding Group, Inc. 800-662-3435

Chemtec 800-424-9300

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients(s)</u>	<u>CAS Number</u>	<u>% (by weight)</u>
Citric Acid	77-92-9	98.0 – 100.0

SECTION 3 HAZARDS IDENTIFICATION

Eye: Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin: Can cause skin irritation. Symptoms may include redness and burning of skin, and other skin damage.

Inhalation: This material is a dust or may produce dust. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

Oral Ingestion: Swallowing this material is not likely to be harmful.

Symptoms of Exposure: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: irritation (nose, throat, airways).

Target Organ Effects: No data.

Developmental Information: No data.

Cancer Information: No data.

Other Health Effects: No data.

Primary Route(s) of Entry: Inhalation, skin contact, ingestion.

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SECTION 4

FIRST AID MEASURES

Oral Ingestion: Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Eye Contact: If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin Contact: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.

Inhalation: If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

Note to Physicians: Pre-existing disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example: asthma-like conditions).

SECTION 5

FIRE FIGHTING MEASURES

Flash Point (method used): NA **Explosive Limit:** NA

Autoignition Temperature: No data. **Fire & Explosion Hazards:** No data.

Hazardous Products of Combustion: May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Extinguishing Media: Water fog, carbon dioxide, dry chemical.

Firefighting Instructions: Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

HAZARD RATING SYSTEMS: This information is for people trained in: National Fire Protection Association (NFPA 704) Identification of the Fire Hazards of Materials

	NFPA 704	KEY	4 = Severe
Health	1		3 = Serious
Flammability	1		2 = Moderate
Reactivity	0		1 = Slight

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SECTION 6

ACCIDENTAL RELEASE MEASURES

Small Spill: Sweep up material for disposal or recovery.

Large Spill: Shovel material into containers. Thoroughly sweep area of spill to clean up any residual material.

SECTION 7

HANDLING & STORAGE

Handling: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection: Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

Respiratory Protection: If needed, use a NIOSH/MSHA jointly approved dust respirator. (Ask your safety representative.)

Engineering Controls: Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects.)

Skin Protection: Wear resistant gloves such as: neoprene, nitrile rubber, polyvinyl chloride. Wear normal work clothing covering arms and legs.

Exposure Guidelines

Components

Citric Acid (77-92-9)

No exposure limits established.

SECTION 9

PHYSICAL & CHEMICAL PROPERTIES

Boiling Point °F: NA

Vapor Pressure: NA

Specific Vapor Density: NA

Specific Gravity: 1.542 @ 68°F

Liquid Density: NA

% Volatile: No data.

Evaporation Rate: NA

Appearance: No data

State: Solid

Physical Form: Granular

Color: White, crystalline

Odor: No data.

pH: NA

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SECTION 10 STABILITY & REACTIVITY

Hazardous Polymerization: Will not occur. **Stability:** Stable.

Hazardous Decomposition Products: May form: carbon dioxide and carbon monoxide, various hydrocarbons.

Incompatibility (materials to avoid): Reactive metals such as aluminum and magnesium, strong alkalis. Can react with chemically reactive metals, such as aluminum, zinc, magnesium, copper, etc., to release hydrogen gas, which can form explosive mixture with air.

SECTION 11 TOXICOLOGICAL/ECOLOGICAL INFORMATION

No data

SECTION 12 DISPOSAL CONSIDERATION

Waste Management Information: Dispose of in accordance with all applicable local, state and federal regulations.

SECTION 13 TRANSPORT INFORMATION

DOT Information – 49 CFR 172.101

DOT Description: Non-regulated by DOT **Container/Mode:** 55 gal. drum/truck package

NOS Component: None **RQ (Reportable Quantity) – 49 CFR 172.101:** NA

SECTION 14 REGULATORY INFORMATION

US Federal Regulations

TSCA Status: TSCA (United States) the intentional ingredients of this product are listed.

CERCLA RQ – 40 CFR 302.4 (a): None Listed **SARA 313 Components – 40 CFR 372.65:** None

SARA 302 Components – 40 CFR 355 Appendix A: None

Section 311/312 Hazard Class – 40 CFR 370.2: Immediate

International Regulations

Inventory Status: DSL (Canada) The intentional ingredients of this product are listed.
EINECS (Europe) The intentional ingredients of this product are listed.
TCCL (Korea) The intentional ingredients of this product are listed.

State & Local Regulations

California Proposition 65: None