



COLUMBUS CHEMICAL INDUSTRIES INC.

P.O. BOX 8
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Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)

Sodium Citrate

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturers /Distributor Address Number Street City State and Zip Code

Columbus Chemical Industries

N4335 Temkin Rd

Columbus, WI 53925-0008

Emergency Telephone Number

CHEMTREC 1-800-424-9300

Telephone Number for Information

920-623-2140

Date Prepared

03-13-2006

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Table with 6 columns: Hazardous Components (Specific Chemical Identity, Common Name(s)), CAS #, OSHA PEL, ACGIH TLV, Other Limits Recommended, % (optional). Row 1: Sodium Citrate*, 68-04-2, Not Available, Not Available, Not available, >95%. Row 2: USP (6132-04-3)

Section III - Physical/Chemical Characteristics

Table with 4 columns: Property, Value, Property, Value. Row 1: Boiling Point, Decomposes, Specific Gravity (H2O = 1), Not applicable. Row 2: Vapor Pressure (mm Hg), Not applicable, Melting Point, 150°C (302°F). Row 3: Vapor Density (AIR = 1), Not applicable, Evaporation Rate (Butyl Acetate = 1), Not applicable.

Solubility in Water

soluble

Appearance and Odor

crystalline solid.

Section IV Fire and Explosion Hazard Data

Table with 4 columns: Flash Point (Method Used), Flammable Limits, LEL, UEL. Row 1: Not Flammable, Not applicable, Not Applicable, Not Applicable.

Extinguishing Media

Use water spray, dry chemical, or carbon dioxide to extinguish supporting fire.

Special Fire Fighting Procedures

In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions.

Section V Reactivity Data

Stability	Unstable		Conditions to Avoid	None
	Stable	X		

Incompatibility Materials to Avoid

None

Hazardous Decomposition or Byproducts

Carbon oxides, sodium oxides.

Hazardous Polymerization**Conditions to Avoid**

	May Occur		Not available.
	Will Not Occur	X	

Section VI Health Hazard Data**Routes of Entry****Inhalation ?****Skin ?****Ingestion ?**

	Yes		Yes	Yes
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Health Hazards (Acute and Chronic)

SKIN: May cause minor irritation EYE: Causes minor irritation. INHALATION: Material may be irritating to the mucous membranes and upper respiratory tract. INGESTION: May cause irritation.

Carcinogenicity**NTP****IARC Monographs****OSHA REGULATED?**

	Not listed	Not listed	Not listed
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Signs and Symptoms of Exposure.

Irritation to eyes, skin, mucous membranes and upper respiratory tract characterized by itching, swelling, redness and pain. Gastrointestinal discomfort.

Medical Conditions Generally Aggravated by Exposure

Unknown to CCI.

Emergency and First Aid Procedures

EYES /SKIN: Immediately flush with large amounts of water for at least 15 minutes.

Remove contaminated clothing. Assure adequate flushing of eyes by separating eyelids with fingers. INHALATION: remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. INGESTION:

DO NOT induce vomiting. Give 1-2 cupfuls of water.

Section VII Precautions for Safe Handling and Use**Steps to be Taken in Case Material is Released or Spilled**

Evacuate unprotected personnel from area. Wear rubber boots, protective gloves and chemical safety goggles. Sweep up, place in a plastic bag and hold for waste disposal.

Ventilate area and wash spill site after material pickup is complete.

Waste Disposal Method Dispose of material in accordance with all applicable Federal, state, and local regulations.

Precautions to be Taken in Handling and Storing

Store in a cool, dry, well-ventilated area in tightly-closed, plainly-labelled containers. Store in a corrosion-resistant container. Protect against moisture, physical damage and light. Maintain adequate ventilation. Wash thoroughly after handling. Do not ingest or breathe dust. Protect exposed tissues.

Other Precautions Containers, even when empty, will retain residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

Section VII Control Measures

Respiratory Protection (Specify Type) Not required

Ventilation	Local Exhaust	Recommended.	Special	Eyewash nearby.
	Mechanical (General)	Recommended.	Other	Safety shower nearby.

Protective Gloves Appropriate chemical-resistant gloves. **Eye Protection** Safety goggles.

Other Protective Clothing or Equipment Lab coat or apron, boots.

Work /Hygienic Practices Wear appropriate personal protective equipment. Wash thoroughly after handling.

Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash contaminated clothing before reuse.

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