



# CITRASTAR-50

## Material Safety Data Sheet

Ballast Star Corp.  
20 Haarlem Ave.  
White Plains, NY 10603

Revision Date: 8/18/2006

### Emergency Overview

**Appearance:** Clear to slightly turbid liquid

**Odor:** No odor

#### WARNING:

In processes where vapors, mists, dusts or airborne particulates may be generated, a NIOSH approved respirator is advised in the absence of proper environmental controls. Thermal and chemical resistant gloves should be used for liquid handling precautions. Chemical resistant gloves should be used for solid handling precautions.

### Hazard Rankings

	HMIS	NFPA
Health Hazard	1	1
Fire Hazard	0	0
Flammability	0	0
Reactivity	0	0

### Protective Equipment

Minimum Recommended  
See Section 8 for Details

This recommendation reflects  
minimum PPE



## SECTION 1. PRODUCT IDENTIFICATION

**Trade Name:** CITRASTAR-50      **Technical Contact:** (914) 949-2000  
**Medical Emergency:** (800) 424-9300

**CAS Number:** Mixture      **CHEMTREC Emergency:** (800) 424-9300  
**(United States Only)**

**Synonyms:** None

## SECTION 2. COMPOSITION

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Component Name(s)	CAS Registry No.	Concentration (%)
Calcium Chloride	10043-52-4	20-45

## SECTION 3. HAZARDS IDENTIFICATION

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**Major Route(s) of Entry:** Inhalation, Skin, Eyes, Ingestion.

### Signs and Symptoms of Acute Exposure

**Eye Contact:** May irritate or burn eyes. Flush with water for 15 minutes.

**Skin Contact:** May cause skin irritation. Under conditions of prolonged contact or when moisture is present, superficial burns may result. Contact with abraded or broken skin can cause severe necrosis.

**Inhalation:** Mist inhalation may irritate nose, throat, and lungs.

**Ingestion:** May irritate gastrointestinal tract, cause nausea and vomiting.

### Medical Conditions Aggravated By Exposure:

None known.

### Other Health Warnings

Get medical attention for irritation, ingestion, or discomfort from inhalation.

## SECTION 4. FIRST AID MEASURES

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**Take proper precautions to ensure your own health and safety before attempting rescue or providing first aid.**

**Eye Contact:** Flush eyes thoroughly with water. If irritation or adverse symptoms develop, seek medical attention.

**Skin Contact:** Remove contaminated clothing and shoes. Wash affected area with soap or mild detergent.

**Inhalation:** Remove from exposure. If breathing is difficult or irritation develops, seek medical attention.

**Ingestion:** Get medical attention.

## SECTION 5. FIRE FIGHTING MEASURES

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**NFPA Flammability Classification**          None

**Flash Point**                                  NA

**Lower Flammable Limit**      NA                                  **Upper Flammable Limit**      NA

**Special Fire Fighting Procedures**          None

**Extinguishing Media**                  This product is nonflammable. Use any agent suitable for the surrounding fire.

**Unusual Fire Fighting Procedures**          None

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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**Protective Measures**                  None

**Spill Management**      For small spills, take up with sand or other absorbent material and place in containers for disposal. For larger spills, dike far ahead of spill for later disposal.

**Reporting**                                  None

## SECTION 7. HANDLING AND STORAGE

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**Handling**                                  Avoid direct contact with skin and eyes. Avoid fumes in confined spaces. Properly dispose of all saturated clothes, gloves, and shoes.

**Storage**                                      Store in approved containers.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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**Engineering Controls**                  None

**Personal Protective Equipment**

Use of gloves, boots, and long sleeved shirts and pants is required to avoid contact with skin. Use splash goggles when eye contact may occur. Minimize breathing vapor, mists, or fumes. For misty condition, wear NIOSH approved mist respirator.



**Eye Protection**

Wear safety glasses with splash shield or safety goggle / shield.

**Hand Protection**

Impervious gloves are recommended.

**Ventilation**

Use local exhaust to capture fumes when handling hot product in confined spaces. Respirator not generally required.

**Body Protection**

Long sleeved shirts and pants are recommended to avoid contact with product.

**Respiratory Protection**

For misty condition, wear NIOSH approved mist respirator.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Attention:** The data below are typical values and do not constitute a specification.

**Appearance:** Clear to slightly turbid liquid

**Odor:** No odor

**pH:** 3.8-9.0

**Vapor Pressure:** NA

**Vapor Density (Air = 1):** NA

**Boiling Point:** 118°C

**Solubility:** Miscible in water

**Melting Point:** NA

**Specific Gravity:** 1.376 @ 25°C

**Viscosity:** NA

## SECTION 10. STABILITY AND REACTIVITY

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**Chemical Stability:** Stable under normal temperatures and pressures.

**Incompatibility With Other Materials:** Reacts violently with boron trifluoride (BF<sub>3</sub>) or a mixture of boron trioxide and calcium oxide. Water-reactive materials such as sodium cause an exothermic reaction. Methyl vinyl ether starts runaway polymerization reaction. Zinc as in galvanized iron yields hydrogen gas, which may explode under these conditions.

**Hazardous Decomposition Products:** Fumes of chlorides (Cl<sup>-</sup>) are given off at temperatures above 1,600°C.

**Hazardous Polymerization:** Runaway polymerization can occur when mixed with methyl vinyl.

**Conditions to Avoid:** None.

## SECTION 11. TOXICOLOGICAL INFORMATION

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### Carcinogen Status

OHSA: NA  
NTP: NA  
IARC: NA

## SECTION 12. ECOLOGICAL INFORMATION

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### ECOTOXICITY

Not expected to be harmful to aquatic organisms.

### ENVIRONMENTAL FATE

Material does not cause significant environmental impact.

## SECTION 13. DISPOSAL CONSIDERATIONS

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Observe all federal, state, and local regulations when disposing of this substance. Not listed as a hazardous waste.

## SECTION 14. TRANSPORT INFORMATION

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**The shipping description below may not represent requirements for all modes of transportation, shipping methods or locations outside the United States.**

**DOT Shipping Name:** Not regulated.

**DOT Hazard Class:** NA

**DOT Identification Number:** NA

**Placard:** None required

**DOT Packing Group:** NA

**Emergency Response Guide No.:** NA

## SECTION 15. REGULATORY INFORMATION

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### CHEMICAL INVENTORIES:

All of the components of this material are on the Toxic Substances Control Act (TSCA) Chemical Inventory or are exempt.

## SECTION 16. ADDITIONAL INFORMATION

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### Scale For NFPA and HMIS Ratings:

0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:-Personal Protective Equipment Index Recommendation, \*-Chronic Effect Indicator. These values are obtained using the guidelines or published evaluations prepared by the National Fire Protections Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value  
STEL - Short-term Exposure Limit  
NA - Not Applicable  
NDA - No Data Available

TWA - Time Weighted Average  
REL/PEL - Recommended/Permissible Exposure Limit  
CAS - Chemical Abstract Service Number  
NE - Not Established

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