

=====

MATERIAL SAFETY DATA SHEET

=====

MSDS NUMBER: 114
 PART NUMBER: 1
 PRODUCT NAME: CITRASTAR - 50
 CAS NUMBER: 10043-52-4
 CHEMICAL NAME: Compound Mixture

=====

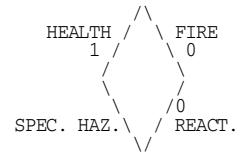
SECTION I

=====

DISTRIBUTOR: Ballast Star Corp.
 ADDRESS: 2 Union St. Extension
 Athens, NY 12015
 EMERGENCY TELEPHONE NUMBER: (800)424-9300
 INFORMATION TELEPHONE NUMBER: (518) 945-1120
 DATE PREPARED: 01/09/06

HMS R RATINGS:

HEALTH: 0
 FIRE: 0
 REACTIVITY: 0
 PERSONAL PROTECTION: B



SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

=====

CAS NUMBER	HAZARDOUS COMPONENT	NTP	IARC	SUB- PART/Z	SARA 313	OSHA PEL	ACGIH TLV	OTHER LIMITS
								RECOMMENDED PERCENT
10043-52-4	Calcium Chloride Proprietary Corrosion inhibitors Dye	N	N	N	N			20 to 30

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

=====

BOILING POINT	118 C	SPECIFIC GRAVITY (H2O = 1)	1.30 @ 25 C
VAPOR PRESSURE (mm Hg.)	NA	MELTING POINT	NA
VAPOR DENSITY (AIR = 1)	NA	EVAPORATION RATE (Butyl Acetate = 1)	NIL

SOLUBILITY IN WATER: Miscible with water in all proportions.

APPEARANCE AND ODOR: Clear to slightly turbid liquid, odorless

OTHER INFORMATION: pH 3.8 - 9.0

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

=====

FLASH POINT: Not Flammable | FLAMMABLE LIMITS: LEL: NA UEL: NA

EXTINGUISHING MEDIA: This product is nonflammable. Use any agent suitable for the surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE FIGHTING PROCEDURES: None

SECTION V - REACTIVITY DATA

=====

STABILITY: Stable.

INCOMPATIBILITY (MATERIALS TO AVOID): Reacts violently with boron trifluoride (BF₃) 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 OR BYPRODUCTS: Fumes of chlorides (Cl⁻) are given off at temperatures above 1600 C.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: Inhalation, Skin, Eyes, Ingestion

SIGNS AND SYMPTOMS OF EXPOSURE: In confined spaces mist may irritate nose, throat and lungs.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

EMERGENCY AND FIRST AID PROCEDURES:

(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. Wash with plenty of water.

(Inhalation)

Mist inhalation may irritate nose, throat, and lungs. Move to fresh air.

(Eye Contact)

May irritate or burn eyes. Flush with water for 15 minutes; consult a physician.

(Ingestion)

May irritate gastrointestinal tract, cause nausea and vomiting. Get medical attention.

OTHER HEALTH WARNINGS: Get medical attention for irritation, ingestion, or discomfort from inhalation

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contain spilled material, dilute with water. Flush to sewer with plenty of water if permitted by applicable disposal regulations.

WASTE DISPOSAL METHOD: Follow all applicable regulations if applicable. Not listed as a hazardous waste.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid direct contact with skin and eyes. Avoid fumes in confined spaces.

OTHER PRECAUTIONS: Properly dispose of all saturated clothes, gloves and shoes. Observe good personal hygiene.

SECTION VIII - CONTROL MEASURES

VENTILATION REQUIREMENTS: Use local exhaust to capture fumes when handling in confined spaces.

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

SECTION IX - ADDITIONAL INFORMATION

ADDITIONAL MANUFACTURER WARNINGS: Warning - Keep away from zinc as in galvanized iron.

Store and transport this material in closed containers. Protect from physical damage. Do not store in metals which this solution corrodes.

OTHER PRECAUTIONS AND COMMENTS:

The information and recommendations contained herein are, to the best of Ballast Star Corp. (BSC) knowledge and belief, accurate and reliable as of the date issued. BSC does not warrant or guarantee their accuracy or reliability, and BSC shall not be held liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use.