

MATERIAL SAFETY DATA SHEET

MASTER BUILDERS, INC.
23700 CHAGRIN BLVD.
CLEVELAND, OHIO 44122
216-831-5500

MASTER BUILDERS
TECHNOLOGIES, LTD.
1800 CLARK BOULEVARD
BRAMPTON, ONTARIO L6T 4M7
905-792-2012

24 HOUR CONTACT
CHEMTREC
800-424-9300
D.C. AREA 483-7616

Prepared by: Department of Environment, Health & Safety
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Page: 1 of 4
Control No. 115159

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). Where a proprietary ingredient is shown, the identity may be made available as provided in this standard.

All components of this product are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

1. **PRODUCT NAME:** RHEOCRETE® CNI

Chemical Family: Calcium Nitrite solution.

2. HAZARDOUS INGREDIENTS:	CASNO	EXPOSURE LIMITS*			CONTENT
		TLV	STEL	PEL	
Calcium Nitrite	13780-06-8	None	None	None	< 40%

(* Refer to Section 7 for available LD/LC(50) Health Hazard Data

3. **PHYSICAL DATA:**

Boiling Point (°C):	ca. 108	Water/Oil Distribution	
Percnt VOC (w/w):	0	Coefficient:	N/Av
Freezing Point (°C):	ca. 0	Solubility in Water:	100%
Vapor Pressure mmHg @20 (°C):	N/Av	Specific Gravity:	ca. 1.25
Vapor Density:	> Air	pH:	< 11.5
Odor Threshold: (ppm)	N/Av	Evaporation Rate:	N/Av
Appearance: Brownish liquid		Odor: Mild sweet.	
N/Av = Not Available	N/Av = Not Applicable		ca. = Approximate

4. **FIRE AND EXPLOSION HAZARD DATA:** HMIS Hazard Rating No. 0 (Minimal)

Flash Point: Non-flammable Method: Not Applicable

Auto-Ignition Temperature: Not Applicable

Limits Of Flammability: LEL: Not Applicable UEL: Not Applicable

Extinguishing Media: This material does not give a flash point by conventional test methods. Use extinguishing agent suitable for type of surrounding fire. In dry form, this material is an oxidizer and may provide oxygen to combustible materials. Resultant fires should be extinguished with Carbon dioxide foam.

Special Fire & Unusual Hazards: None known.

RHEOCRETE[®] CNI

Page 2 of 4

5. **REACTIVITY DATA:** HMIS Hazard Rating No. 0 (Minimal)

Stability: Stable. Not sensitive to mechanical impact.

Incompatibility: Acids, Ammonium salts, Activated carbon, Reducing agents, and Cyanides.

Hazardous Decomposition Products: (After water has evaporated.) Oxides of Carbon and Nitrogen. Avoid direct contact with other materials that may cause pH to fall below 8.0 resulting in the possible formation of Nitrogen oxide gas.

Hazardous Polymerization: Will not occur.

6. **ENVIRONMENTAL & DISPOSAL INFORMATION:**

Action to Take for Spills/Leaks: Wear appropriate protective equipment. Take action to eliminate source of leak; contain spill by diking; prevent from entering waterways. vacuum up liquid or use absorbent media; remove to storage for disposal.

Waste Disposal Method: Dispose in accordance with local, state, province and federal regulations. This product in liquid form is not defined as hazardous by EPA. In dry form it becomes an oxidizer and is defined as a reactive waste coded D003.

7. **HEALTH HAZARD DATA:** HMIS Hazard Rating No. 2 (Serious)

PRIMARY ROUTE OF ENTRY: Eyes, Dermal, Ingestion

Effects Of Overexposure

<u>Inhalation:</u>	At room temperature, exposures to vapors are unlikely due to physical properties. Mists may cause irritation to the mucous membrane.
<u>Eyes:</u>	May cause moderate transient irritation, reddening, swelling and blurred vision. Prolonged contact may cause serious irritation and possible corneal damage.
<u>Skin Contact:</u>	Prolonged or repeated skin contact tends to remove skin oils possibly leading to irritation and dermatitis.
<u>Skin Absorption:</u>	Not expected to be absorbed through the skin in sufficient quantities to increase overall toxicity.
<u>Ingestion:</u>	Amounts ingested incidental to industrial handling are not expected to cause injury. Large quantities may cause nausea, vomiting, cyanosis, or coma which could be fatal.
<u>LC(50) Oral</u>	CASRN 13780-06-8 283 mg/kg Rat.
<u>Chronic:</u>	Product does not contain carcinogenic materials as defined by OSHA Hazardous Communications Act 1910 1200. Materials are not known mutagenic, teratogenic, or reproductive health hazards

RHEOCRETE® CNI

8. FIRST AID:

- Inhalation: Remove victim from exposure. If difficulty with breathing, administer oxygen. If breathing has stopped administer artificial respiration, preferably mouth-to-mouth. Seek medical attention.
- Eyes: Flush eyes with water, lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.
- Skin: Remove contaminated clothing. Wash thoroughly with soap and water. If irritation persists seek medical attention. Wash contaminated clothing before reuse.
- Ingestion: Drink two glasses of water, then induce vomiting by taking IPECAC syrup, salt water or by placing finger at back of throat. Do NOT give anything by mouth to an unconscious person.

9. SPECIAL PROTECTION INFORMATION:

Ventilation: Ventilation is generally not required.

Personal Protection Equipment: Do NOT wear contact lenses when working with this material. Use chemical goggles/safety glasses with side shields and Nitrile gloves. Selection of specific items such as boots and apron will depend on operation. Wear respirator protection whenever airborne concentrations exceed TLV or TWA limits; use NIOSH/OSHA approved respirators equipped with an organic vapor cartridge for listed hazard.

Confined spaces, rooms, or tanks are areas where concern for TLV's is especially important. Reference OSHA Regulation CFR 29 1910.134 for recommended respiratory protection.

10. ADDITIONAL INFORMATION:

- Average Shelf Life: Refer to Product Data sheet.
- Special Instructions: Keep from freezing

REGULATORY INFORMATION:

- Title III Section 302: No reportable chemicals.
- Title III Section 311/312: Health hazard: Immediate
Physical hazard: None
- Title III Section 313: None above de minimis.
- State: California No reportable chemicals.
- WHMIS Classification: Class D, Div. 2, Sub B
- Canadian Domestic Substance List: All chemicals are listed.

RHEOCRETE[®] CNI

Page 4 of 4

10. **ADDITIONAL INFORMATION:** (cont'd)**TRANSPORTATION**

RHEOCRETE[®] CNI was tested using UN test O.2, "Test for Oxidizing Liquids", following the procedure described in the Transport of Dangerous Goods Manual of Tests and Criteria, 2nd revised edition, United Nations, New York and Geneva, 1995. The results indicated that **RHEOCRETE[®] CNI** is **NOT** an oxidizing liquid.

National Motor Freight Classification (NMFC): NOT DETERMINED

Description: NOT DETERMINED

Emergency Response Guide Page No.: NOT REGULATED

DOT Reportable Quantity: NOT REGULATED

Shipping Name: NOT REGULATED - USE NMFC DESCRIPTION

Marine Pollutant: NL

P = Moderate

PP = Severe

WS = Water Sheen

NL = Not Listed

ND = Not Determined

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