



# MATERIAL SAFETY DATA SHEET

Ferro Corporation, Polymer Additives Division  
Cleveland Operation  
1636 Wayside Road  
Cleveland, Ohio 44112 USA

**Emergency telephone number**  
CHEMTREC: 1-800-424-9300  
CHEMTREC (outside U.S.): 1-703-527-3887  
Plant Number: 1-216-531-6010

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:** Therm-Chek® RC204P 100 Lb Drum **Date of Preparation:** 11/18/2008  
**Chemical Family:** Polymer Additive  
**Chemical Name:** PVC Powder Stabilizer  
**CAS-No.:** Mixture  
**Product Code:** 1340998

## 2. HAZARD IDENTIFICATION

### Emergency Overview

Caution

May cause eye/skin irritation. May cause irritation of respiratory tract. Concentrated airborne dust may present an explosion hazard.  
**NFPA 704**

<b>Colour:</b>	White	<b>Health:</b>	1
<b>Physical state:</b>	Powder	<b>Fire:</b>	1
<b>Odour:</b>	Mild	<b>Instability:</b>	0

### Potential Health Effects

**Principle routes of exposure:** Eye contact. Skin contact. Inhalation.

**Eye contact:** May cause slight irritation.

**Skin contact:** Prolonged skin contact may cause skin irritation and/or dermatitis.

**Inhalation:** Product dust may be irritating to eyes, skin and respiratory system. Over-exposure by inhalation may cause respiratory irritation.

**Ingestion:** May irritate digestive tract.

**Chronic toxicity:** Excessive inhalation of dust may cause chemical pneumonitis, cyanosis, and pulmonary edema.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %
Calcium Hydroxide	1305-62-0	20 - 30%
Zinc compound		20 - 30%
Magnesium Perchlorate	10034-81-8	10 - 20%
Quartz silica	14808-60-7	<0.05%

## 4. FIRST AID MEASURES

**Eye contact:** Rinse immediately with plenty of water, also under the eyelids. Get medical attention if irritation develops.

**Skin contact:** Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. If symptoms persist, call a physician.

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. If symptoms persist, call a physician.

**Ingestion:** Drink plenty of water. Do not induce vomiting without medical advice. Consult a physician.

**Notes to physician:** Treat symptomatically.

#### 5. FIRE-FIGHTING MEASURES

**Flash point (°C):** Non combustible

**Suitable extinguishing media:** Use dry chemical, CO<sub>2</sub>, water spray or "alcohol" foam.

**Hazardous decomposition products:** Thermal decomposition can lead to release of irritating gases and vapors. Heavy metal compounds. Carbon oxides. Al<sub>2</sub>O<sub>3</sub>. MgO. ZnO.

**Special protective equipment for firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.

**Unusual hazards:** Concentrated dust may present an explosion hazard.

#### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Avoid dust formation. Evacuate area of all unnecessary personnel. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not breathe vapors/dust.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

**Methods for cleaning up:** Use approved industrial vacuum cleaner for removal. Wear personal protective equipment. Dispose of promptly.

#### 7. HANDLING AND STORAGE

**Handling:** Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. Avoid contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from open flames, hot surfaces and sources of ignition.

**Storage:** Keep container tightly closed in a dry and well-ventilated place.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Exposure limits

Components	OSHA	ACGIH
Calcium Hydroxide	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)	5 mg/m <sup>3</sup> TWA
Quartz silica	30 mg/m <sup>3</sup> / (%SiO <sub>2</sub> + 2) Total Dust 10 mg/m <sup>3</sup> / (%SiO <sub>2</sub> + 2) Respirable	0.025 mg/m <sup>3</sup> TWA (respirable)

**Engineering measures:** Provide appropriate exhaust ventilation at machinery and at places where dust or fumes can be generated. Ensure adequate ventilation, especially in confined areas.

**Eye protection:** Safety glasses with side-shields, goggles or face shield.

**Skin and body protection:** Impervious clothing. Remove and wash contaminated clothing before re-use. Contaminated work clothing should not be allowed out of the workplace.

**Hand protection:** Impervious gloves.

**Respiratory protection:** Use NIOSH approved respirator when ventilation is inadequate.

**Hygiene measures:** Ensure that eyewash stations and safety showers are proximal to the work-station location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Colour:</b>	White	<b>Physical state:</b>	Powder
<b>Odour:</b>	Mild	<b>Molecular weight:</b>	No data available
<b>Boiling point/range (°C):</b>	No data available	<b>pH:</b>	No data available
<b>Melting point/range (°C):</b>	No data available	<b>Specific gravity (Water =1):</b>	> 1.000
<b>Vapor pressure (mmHg):</b>	No data available	<b>Evaporation Rate (Water = 1)</b>	No data available
<b>Water solubility (mg/l):</b>	Insoluble	<b>VOC content (%)</b>	0

## 10. STABILITY AND REACTIVITY

**Stability:** Stable at normal conditions.

**Polymerization:** Will not occur.

**Hazardous decomposition products:** None under normal use. Thermal decomposition can lead to release of irritating gases and vapours. Heavy metal compounds. Carbon oxides.

**Materials to avoid:** Strong oxidizing agents.

**Conditions to avoid:** Avoid dust formation.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** No data is available on the product itself

**Component Information** Component information, if any, is listed below

### Quartz silica

**OSHA - Select Carcinogens:** Present

**NTP:** Known carcinogen

**IARC - Group 1:** Monograph 68, 1997 (inhaled in the form of quartz or cristobalite from occupational sources)

### Calcium Hydroxide

**LD50s and LC50s:** Oral LD50 Rat: 7340 mg/kg

## 12. ECOLOGICAL INFORMATION

**Aquatic toxicity:** Not determined

**Persistence and degradability:** Not determined

## 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products:** Waste must be disposed of in accordance with federal, state and local environmental control regulations. Where possible recycling is preferred to disposal or incineration.

## 14. TRANSPORT INFORMATION

### DOT (U.S.)

**Proper shipping name:** Not regulated.

### TDG (Canada)

**Proper shipping name:** Not regulated.

## 15. REGULATORY INFORMATION

### U.S. Regulations:

Not subject to TSCA 12(b) Export Notification

Components	SARA 313:
Zinc compound (20 - 30%)	1.0 percent de minimis concentration (Chemical Category N982)

### State Regulations

This product or its ingredients have been evaluated for New Jersey, Pennsylvania, and California Prop 65 supplier notification requirements. Substances that are subject to notification requirements, if any, are listed below.

Components	State Regulations - NJ; PA; CA Prop65
Magnesium Perchlorate	Listed (PARTK)
Quartz silica	Listed (NJRTK) Carcinogen (Cal Prop 65) Listed (PARTK)
Calcium Hydroxide	Listed (NJRTK) Listed (PARTK)

### Canadian WHMIS

WHMIS hazard class: D2B Toxic materials.

### Canadian Ingredient Disclosure List (IDL):

Components	WHMIS Ingredient Disclosure:
Magnesium Perchlorate	1% (English Item 1247, French Item 1354)
Calcium Hydroxide	1%

### International Inventories

TSCA 8(b): Listed or exempt.  
Canadian DSL: Listed or exempt.  
EC-No. Listed or exempt.  
Phillipines (PICCS): Listed.  
Japan (ENCS): Listed or exempt.  
Korea (KECL): Listed.  
China (IECS): Listed.  
Australia (AICS): Listed.

## 16. OTHER INFORMATION

### For Industrial Use Only

#### HMIS

Health: 1

Fire: 1

Physical hazard: 0

PPE: E

Prepared by: Ferro Technical Center

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the MSDS was prepared. No warranty, guaranty or representation is made as to the correctness or sufficiency of the information. The user of this product must decide what safety measures are necessary to safely use this product, either alone or in combination with other products, and determine its environmental regulatory compliance obligations under any applicable federal or state laws.

End of Safety Data Sheet