

MATERIAL SAFETY DATA SHEET
Thoro System Products

Thoropatch

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFICATION

Brand Name Thoropatch
 Common Name Thoropatch
 Formula Mixture
 Molecular Weight. N/A
 Product Use Concrete/Masonry Repair Restoration

MANUFACTURER

ChemRex Inc.
 Commercial Construction Products
 889 Valley Park Drive
 Shakopee, MN 55379
 Telephone 612/496-6000

EMERGENCY TELEPHONE NUMBER

CHEMTREC
 800-424-9300

2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredients	CAS Number	%	ACGIH TLV	OSHA PEL
Silica, Crystalline Quartz	14808-60-7	70 - 80	0.1 mg/m ³ Respirable	See Section 9
Portland Cement	65997-15-1	20 - 30	10 mg/m ³ Total	10 mg/m ³ Total 5 mg/m ³ Respirable fraction
Calcium Hydroxide	1305-62-0	1 - 5	5 mg/m ³ Respirable	5 mg/m ³ Respirable

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications. gt=greater than, lt=less than, ca=approximately, C=ceiling

3. PHYSICAL / CHEMICAL CHARACTERISTICS

Appearance Gray powdered solid
 Odor No odor
 pH No data available. Strongly basic when mixed with water
 Vapor Pressure (mm Hg at 20^o C) Not applicable. Solid at all service temperatures
 Vapor Density (Air=1) Not applicable
 Boiling Point No data available
 Solubility in Water. Slight
 Specific Gravity (H₂O=1). No data
 % Volatile by Volume Negligible

4. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): NA

Upper Explosive Limit: NA

Lower Explosive Limit: NA

EXTINGUISHING MEDIA

Not applicable

SPECIAL FIRE FIGHTING PROCEDURES

Not applicable

UNUSUAL FIRE AND EXPLOSION HAZARDS

None known

5. REACTIVITY DATA

STABILITY (CHOOSE ONE): UNSTABLE
 STABLE

Product hydrates at a slow, controlled rate when mixed with water releasing minimal heat.

INCOMPATIBILITY (MATERIALS TO AVOID)

Strong oxidizing agents such as organic and inorganic acids. Acids will react with cement, lime and carbonates.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

None

HAZARDOUS POLYMERIZATION (CHOOSE ONE): MAY OCCUR
 WILL NOT OCCUR

6. HEALTH HAZARD DATA

GENERAL

No toxicity information is available on this specific preparation; this health hazard assessment is based on information that is available on its components.

INGESTION

No toxic effects are known to be associated with ingestion of this material. May cause digestive tract irritation.

EYE CONTACT

This material can irritate and may burn eyes following direct contact. The aggregate particles may cause abrasions to the cornea..

SKIN CONTACT

Dryness, itching, rashes and burns can develop following contact with the skin. Skin abrasions can occur if material is rubbed against the skin. Dermatitis and skin sensitization can develop after repeated or prolonged exposure. This material is not absorbed through the skin.

INHALATION

Repeated inhalation of silica in excess of the TLV over extended periods can result in irreversible fibrosis of the lungs (silicosis). Overexposure to dusts can irritate the respiratory tract and can cause damage to the mucous membranes of the upper respiratory tract. The International Agency for Research on Cancer (IARC) classified crystalline silica inhaled in the form of quartz cristobalite from occupational sources as *carcinogenic to humans*. This assignment was based on a relatively large number of epidemiological studies that provided *sufficient evidence* in humans for the carcinogenicity of inhaled crystalline silica.

OTHER EFFECTS OF OVEREXPOSURE

No other adverse clinical effects are known to be associated with exposure to this material.

EMERGENCY AND FIRST AID PROCEDURES

INHALATION

Remove victim to fresh air. If breathing is difficult administer oxygen. Consult a physician.

INGESTION

Give one (1) or two (2) glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel. Never give anything by mouth to an unconscious person.

EYE CONTACT

Do not rub eyes. Flush with water for at least 15 minutes. Obtain medical attention. Consult medical personnel.

SKIN CONTACT

Do not rub skin. Wash with soap. Flush with water for at least 15 minutes.

7. PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Keep unnecessary people away. Follow personal protection procedures when cleaning up spills. Collect spilled powder by dustless methods and place in containers. If necessary, dike spills of mixed material with absorbent material and shovel into waste containers. Avoid generating dusts. Wet material may be slippery. Use caution to avoid falls.

WASTE DISPOSAL METHOD

Reuse powder or mixed material if uncontaminated. Discarded product and hardened mortar are non-hazardous wastes under RCRA (40 CFR, Part 261). Dispose of as non-hazardous waste in compliance with applicable regulations.

CONTAINER DISPOSAL

Empty containers may retain small amounts of residual product. Observe all hazard precautions and personal protection recommendations when handling empty containers. Dispose of as a non-hazardous waste in accordance with all applicable regulations.

SPECIAL PRECAUTIONS

Prevent skin and eye contact. Observe TLV limitations. Avoid breathing dusts. Sensitized individuals should not be exposed to the product which caused sensitization. Store in a cool, dry area off the ground. Minimize generation of dust.

8. SPECIAL PROTECTION INFORMATION

TLV OR SUGGESTED CONTROL VALUE

No TLV assigned to this mixture. Minimize exposure in accordance with good hygienic practice.

VENTILATION

Use local exhaust when possible to keep exposure below applicable exposure limits for silica, portland cement, and nuisance dusts.

RESPIRATORY PROTECTION (SPECIFY TYPE)

Where exposure to dusts from this product may exceed the applicable exposure limits a MSHA-NIOSH approved respirator for the dust should be used.

PROTECTIVE CLOTHING

Gloves and protective clothing recommended.

EYE PROTECTION

Full face shield or chemical tight goggles recommended to avoid splashing in eyes while handling, mixing, placing or as long as splash hazard exists. Safety glasses recommended if grinding, cutting, etc. of hardened material is required.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Provide eyewash station or other suitable means of cleansing eyes and skin in emergencies.

9. OTHER INFORMATION

PEL for silica, crystalline quartz:

For respirable dust in mg/m^3 : 10 mg/m^3
% $\text{SiO}_2 + 2$

For total dust in mg/m^3 : 30 mg/m^3
% $\text{SiO}_2 + 2$

PREPARATION INFORMATION

Prepared by Regulatory Affairs Department - (612) 496-6000

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REVISION INFORMATION