

Safety Data Sheet

Iron Crete™ #5150 (complete with catalyst - "Quick Set" - 4 hrs.)

REVISION DATE: DATE Jan 01 2024

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(30605519/SDS GEN CA/EN)

1. Product and Company Identification

GTH Industries Ltd.

10 - 330 Marwood Drive
Oshawa, ON
L1H 8B4

24 Hour Emergency Response Information
CANUTEC (reverse charges): (613) 996-6666
BASF HOTLINE: (800) 454-COPE (2673)

2. Hazards Identification

Emergency overview

IRRITANT.

In combination with water, repeated or prolonged dermal exposure can cause moderate to severe alkali burns.

Risk of serious damage to eyes.

Irritating to respiratory system and skin.

CONTAINS MATERIAL WHICH CAN CAUSE CANCER.

State of matter: solid

Colour: grey

Odour: faint odour

Potential health effects

Acute toxicity:

Product may present a nuisance dust hazard. Inhalation of dust may cause respiratory tract irritation, coughing and breathing difficulties.

Irritation / corrosion:

Causes temporary irritation of the respiratory tract. Skin contact causes irritation. May cause severe damage to the eyes. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Sensitization:

Chromate in this product has been reduced. Sensitization due to chromate within stated shelf-life is unlikely.

Chronic toxicity:

Carcinogenicity: Contains a known carcinogen. This product contains crystalline silica (quartz).

Repeated dose toxicity: Inhalation of dust may cause respiratory tract irritation, coughing and breathing difficulties.

Irratogenicity: The chemical structure does not suggest such an effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Signs and symptoms of overexposure:

Eye irritation, skin irritation, irritation of the mucous membranes

Potential environmental effects

Aquatic toxicity:

The product gives rise to pH shifts.

Degradation / environmental fate:

Inorganic product which cannot be eliminated from water by biological purification processes. The product is slightly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Hazardous ingredients</u>
14808-60-7	>= 40.0 - <= 70.0 %	crystalline silica
65997-15-1	>= 5.0 - <= 10.0 %	Cement, portland, chemicals
7778-18-9	>= 3.0 - <= 7.0 %	Calcium sulphate

4. First-Aid Measures

General advice:

First aid personnel should pay attention to their own safety. Remove contaminated clothing.

If inhaled:

After inhalation of dust. Keep patient calm, remove to fresh air. If difficulties occur: Obtain medical attention.

If on skin:

After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

5. Fire-Fighting Measures

Flash point:

The substance/product is non-combustible.

Autoignition:

not applicable

Suitable extinguishing media:

foam, water spray, dry powder, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Product is not combustible or explosive. No particular hazards known.

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered. The degree of risk is governed by the burning substance and the fire conditions. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Avoid dust formation. Avoid contact with skin and eyes. Use personal protective clothing. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions:

No special precautions necessary.

Do not discharge into drains/surface waters/groundwater.

Cleanup:

Avoid raising dust.

For small amounts: Pick up with suitable appliance and dispose of.

For large amounts: Pick up with suitable appliance and dispose of. Pack in tightly closed containers for disposal.

For residues: Rinse with plenty of water.

7. Handling and Storage

Handling

General advice:

Avoid dust formation. The Cement contained in this product reacts alkaline when in contact with water or humidity. This may cause severe irritation of skin or mucous membranes. The humidity of the skin or mucous membranes is enough for this reaction. Prolonged direct contact to the dry product should be avoided therefore. Avoid inhalation of dusts. Avoid skin contact. Pour downwind and allow as little free fall as possible while emptying bags into equipment. Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection against fire and explosion:

No special precautions necessary.

Storage

General advice:

Containers should be stored tightly sealed in a dry place.

8. Exposure Controls and Personal Protection

Components with workplace control parameters

TWA value 2.4 millions of particles per cubic foot of air
Respirable ;
The value is calculated from a specified equation using a
value of 100%. Lower values of % will give higher
exposure limits. See regulation for specific equation.
TWA value 0.1 mg/m³ Respirable ;
The value is calculated from a specified equation using a
value of 100%. Lower values of % will give higher
exposure limits. See regulation for specific equation.
TWA value 0.3 mg/m³ Total dust ;
The value is calculated from a specified equation using a
value of 100%. Lower values of % will give higher
exposure limits. See regulation for specific equation.

Cement, portland, chemicals	ACGIH	TWA value 0.025 mg/m ³ Respirable fraction ;
	OSHA	PEL 5 mg/m ³ Respirable fraction ; PEL 15 mg/m ³ Total dust ;
	ACGIH	TWA value 1 mg/m ³ Respirable fraction ; The value is for particulate matter containing no asbestos and <1% crystalline silica.
Calcium sulphate	OSHA	PEL 5 mg/m ³ Respirable fraction ; PEL 15 mg/m ³ Total dust ;
	ACGIH	TWA value 10 mg/m ³ Inhalable fraction ;

Advice on system design:

Provide local exhaust ventilation to maintain recommended P.E.L.

Personal protective equipment

Respiratory protection:

Breathing protection if dusts are formed.

Hand protection:

Chemical resistant protective gloves, Manufacturer's directions for use should be observed because of great diversity of types.

Eye protection:

Tightly fitting safety goggles (chemical goggles).

Body protection:

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:

Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. Physical and Chemical Properties

Form:	powder to fine granules	
Odour:	faint odour	
Odour threshold:	No data available.	
Colour:	grey	
pH value:	12	(20 °C) (as aqueous solution)
Bulk density:	1.6 g/ml	
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

10. Stability and Reactivity

Conditions to avoid:

Avoid dust formation. Avoid humidity.

Substances to avoid:

strong acids
strong bases, strong acids

Hazardous reactions:

The product is stable if stored and handled as prescribed/indicated.
Strong bases are formed on the addition of water.

Decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological information

Irritation / corrosion

Information on: Cement, portland, chemicals

Assessment of irritating effects:

Skin contact causes irritation. May cause severe damage to the eyes.

Repeated dose toxicity

Information on: crystalline silica

Assessment of repeated dose toxicity:

Repeated inhalation exposure may affect certain organs. The substance may cause increase in lung mass and lung tissue changes after repeated inhalation.

This product may contain greater than 0.1% crystalline silica. Repeated exposure to high concentrations results in silicosis, a lung disease characterized by coughing, difficult breathing, wheezing, scarring of the lungs, and repeated, non-specific chest illnesses.

Carcinogenicity

Information on: crystalline silica

The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen.

NTP listed carcinogen

Experiences in humans:

Information on: crystalline silica

May cause silicosis.

Other Information:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

12. Ecological Information

Degradability / Persistence

Evaluation:

Experience shows this product to be inert and non-degradable.

Other adverse effects:

Do not discharge product into the environment without control.

13. Disposal considerations

Waste disposal of substance:

Observe national and local legal requirements. Residues should be disposed of in the same manner as the substance/product.

Container disposal:

Completely emptied packagings can be given for recycling.

14. Transport Information

Land transport

TDG

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical DSL, CA released / listed

WHMIS classification: D2A: Materials Causing Other Toxic Effects - Very toxic material



D2B: Materials Causing Other Toxic Effects - Toxic material



THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

16. Other Information

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

MSDS Prepared by:

GTH Industries Ltd.

www.gthltd.com

END OF DATA SHEET