



Safety Data Sheet - PYROCHILL Fire Inhibitor

Revision Date 10/20/2022

SECTION 1: IDENTIFICATION

1.1 Product Identifier

Product Form: A substance in the form of an off-white powder that is a blend of multiple mineral compounds. This SDS is exclusively for the product in its dry state before mixing with water as directed.

Product Name(s): PYROCHILL Fire Inhibitor

1.2 Intended Use of the Product

Used as a fire inhibitor in various commercial and industrial applications.

1.3 Name, Address and Telephone of the Responsible Party Company

PYROCHILL Solutions Inc.
102 S. Tejon St. #1100
Colorado Springs, CO 80903
(800) 961-2456

1.4 Emergency Telephone Number

Emergency Number: 800-961-2456

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

GHS/ Hazcom 2012 Classification:

Physical:	Health:	Environment:
Not Hazardous	Not Hazardous	Not Hazardous

Reproductive toxicity: (Category 2) H361 Suspected of damaging fertility or the unborn child if ingested in large quantities.

GHS/Hazcom 2012 Label: Not hazardous in accordance with 29 CFR 1910.1200 (Hazcom 2012) and the GHS

2.2 GHS Label elements

Pictogram Signal word:

WARNING



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Hazard statements

H361 Suspected of damaging fertility or the unborn child.

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P281 Use personal protective equipment as required.

P308/P313 If exposed or concerned: Get medical advice/ attention.

P405 Store locked up.

EMERGENCY OVERVIEW

Off-white, odorless, powdered substance that is not flammable, combustible, or explosive, and has low acute oral and dermal toxicity.

Potential health effects

Route(s) Of Entry: Inhalation, Skin, Ingestion. Inhalation is the most significant route of exposure in occupational and other settings.

Inhalation

Mild irritation effects to nose and throat may occur from occasional inhalation of Pyorchill Fire Inhibitor. However, please note that inhalation, chronic or acute is to be avoided. Medical conditions may be aggravated by exposure.

Eye contact

May cause irritation and burning. Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

Skin contact

Contains salts which may cause severe irritation and burning of the skin. Rinse skin immediately with plenty of water. Call a poison control center or doctor for treatment advice.

Ingestion

Not intended for ingestion. Swallowing amounts larger than that may cause nausea, vomiting, gastrointestinal irritation or ulceration. Call a poison control center or doctor immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Reproductive/Developmental

Contains borates - Animal ingestion studies in several species, at high doses, indicate that borates cause reproductive and developmental effects. A human study of occupational exposure to borate dust showed no adverse effect on reproduction. A recent epidemiological study and a peer reviewing report of the past epidemiological studies conducted in China didn't show any negative effect of boron on human fertility (10, 11).

Potential ecological effects

Contains borates. Concentrated amounts of borates can be harmful to plants and other species. Therefore, releases to the environment should be minimized.

Carcinogenicity

NTP: Not listed as a carcinogen or mutagen.

IARC: Not listed as a carcinogen or mutagen.

OSHA: Not listed as a carcinogen or mutagen.

Refer to section 11 for details on Toxicological data.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCE

The specific chemical identity and exact percentages (concentrations) of PYROCHILL Fire Inhibitor's composition have been withheld as a trade secret.

Composition is >50%:

(GS) Code: 2528.00

2528.00 -Natural borates and concentrates thereof (whether or not calcined), but not including borates separated from natural brine;natural boric acid containing not more than 85 percent of H3BO3 calculated on the dry weight:

US Foreign Trade Schedule B (2022) Classification: 2528.00.1000

2528.00.1000 - Natural sodium borates and concentrates thereof (whether or not calcined)

Other Comments: Contains 0.06% - 0.10% Fluorides, as F. Prolonged or repeated overexposure to fluoride compounds may cause fluorosis. Fluorosis is characterized by skeletal changes, consisting of osteosclerosis (hardening or abnormal density of bone) and osteomalacia (softening of bones) and by mottled discoloration of the enamel of teeth if exposure occurs during enamel formation. Symptoms may include bone and joint pain and limited range of motion.

SECTION 4: FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST-AID MEASURES

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: Using proper respiratory protection, immediately move the exposed person to fresh air. If breathing is difficult have qualified personnel administer oxygen and obtain prompt medical attention. If breathing has stopped, perform artificial respiration. Get prompt medical attention.

Skin Contact: Rinse immediately with plenty of water for 5 minutes. Obtain medical attention if irritation develops or persists.

Eye Contact: Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if redness, pain, or irritation occurs.

Ingestion: Rinse mouth. Do not induce vomiting. Get medical advice and attention if you feel unwell.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream, as they may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

National Fire Protection Rating

Health	0
Flammability	0
Reactivity	0
4=Severe 3=Serious 2=Moderate 1=Slight 0=Minimal	

Flashpoint: None

Extinguishing Media: Use foam, dry chemical or water spray.

Fire and Explosion Hazard: Non-flammable with no Volatile Organic Compounds in smoke

5.3. Advice for Firefighters

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

IN CASE OF SPILLS OR LEAKS: Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

SMALL SPILL: Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

LARGE SPILL: Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. After removal, clean contaminated area thoroughly with water. Pick up wash liquid with additional absorbent and place in a disposable container.

This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Minimize use of water to prevent environmental contamination

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

KEEP OUT OF REACH OF CHILDREN

Precautions for Safe Handling: Use only in a well-ventilated area. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid creating or spreading dust. Avoid breathing dust.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or temperatures below 32 degree Fahrenheit/0 degrees Celsius.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

EXPOSURE LIMITS (8 hour TWA, ppm)

COMPONENT	OSHA PEL	ACIGH TLV
PYROCHILL FIRE INHIBITOR	Not listed	Not listed

8.2. Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountain capability should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Proper ventilation is required when handling or using this product. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



EYE PROTECTION: Chemical safety goggles.

SKIN AND BODY PROTECTION: Wear suitable protective clothing. Long-sleeved shirt and long pants, Chemical-resistant footwear plus socks and appropriate closed shoes.

HAND PROTECTION: Wear protective gloves.

protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

USER SAFETY RECOMMENDATIONS:

When using, do not eat, drink or smoke. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

After shift and/or handling this product - as soon as possible - wash thoroughly and change into clean clothing. Keep and wash PPE separately from other laundry.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State:	Solid
Appearance:	Off-white, dry powder
Odor:	Moderate Odor
Odor Threshold:	Not available
pH:	5.9-7.9
Evaporation Rate:	Not available
Melting Point:	Not available
Freezing Point:	Not available
Boiling Point:	Not available
Flash Point:	Not available
Auto-ignition Temperature:	Not available
Decomposition Temperature :	Not available
Flammability (solid, gas):	Not flammable
Vapor Pressure:	Not available
Relative Vapor Density at 20°C:	Not available
Relative Density:	Not available
Specific Gravity:	Not available
Solubility:	Not available
Partition Coefficient:	log Pow = 0.57@25 degrees Celsius
Viscosity:	Not available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Non-reactive

10.2. Chemical Stability: Stable under recommended handling and storage conditions, however may decompose if heated. (see section 7).

10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4. Conditions to Avoid: Direct sunlight, extremely high (above 100 degrees Fahrenheit/38 degrees Celsius) or low temperatures (below 32 degrees Fahrenheit/0 degrees Celsius).

10.5. Incompatible Materials: None known

10.6. Hazardous Decomposition Products: Nitrogen Oxides

SECTION 11: TOXOLOGICAL INFORMATION

11.1. Information on Toxicological Effects

ACUTE TOXICITY:

Oral LD50 (rat)	>2,100 mg/Kg
Dermal LD50 (rat)	>6,000 mg/Kg
Inhalation LC50 (rat)	>4.00 mg/L
Eye Irritation (rabbit)	Mild irritant
Skin irritation (rabbit)	Slight irritant

Sensitization (guinea pig) Non-sensitizer

CARCINOGEN STATUS

OSHA	Not listed
NTP	Not listed
IARC	Not listed

TERATOGENICITY: No reproductive or teratogenic (birth defect) effects at normal exposure levels. See Section 2 for warning if high exposure levels.

MUTAGENICITY: Little or no evidence of mutagenic effects during in vivo or in vitro studies.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: This product is highly toxic to birds and aquatic invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Cover or incorporate spilled treated seeds.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

FATE: Imidacloprid has a soil 1/2 life of 29 - 225 days depending on soil type and conditions. It is soluble in water and has the potential to leach in permeable soil types.

FISH TOXICITY: (Technical)

96 hour LC50 Rainbow Trout	211 mg/L
96 hour LC50 Bluegill	unknown

AVIAN TOXICITY: (Technical)

Oral LC50, Bobwhite quail	1,500 ppm
Oral LC50, Mallard duck	4,700 ppm

BEE, ANT, AND TERMITE TOXICITY:

Contact LD50	Highly toxic! (the acid in Boric Acid causes severe dehydration in these insects.)
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Refer to product label for specific directions on pollinator protection.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Do not contaminate water, food or feed by storage or disposal.

WASTE: Dispose of in accordance with applicable Federal, state and local laws and regulations.

Additional Information: Container may remain hazardous when empty. Continue to observe all precautions.

CONTAINER: Non-refillable containers: Do not reuse or refill this container. Offer for recycling, if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Refillable container: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container

Refer to the container label to determine if it is refillable and for complete cleaning and disposal instructions.

SECTION 14: TRANSPORT INFORMATION

Not regulated by IATA

Not regulated by DOT for Ground Transport

Transport Hazard Class: N/A

UN Number: N/A

DOT Packing Group: N/A

SECTION 15: REGULATORY INFORMATION

CERCLA REPORTABLE QUANTITY: Not listed

SARA TITLE II STATUS:

313 Toxic Chemicals None known

CALIFORNIA PROP 65: Not listed on Unacceptable List

TSCA This product is exempted from TSCA because it is solely for NFPA/FIFRA regulated use.

SECTION 16: OTHER INFORMATION INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date :10/20/2022

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR).

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.