

PYROCHILL FIRE INHIBITOR – READY TO USE

SAFETY DATA SHEET

SECTION 1 – PRODUCT NAME AND COMPANY IDENTIFICATION

- 1.1 Product name: Pyrochill Fire Inhibitor – Ready to Use
General use: Fire retardant
Product description: Liquid dispersion
- 1.2 Manufacturer: Pyrochill Solutions Inc., 102 South Tejon St., #1100, Colorado Springs, CO 80903
Telephone number: (800) - 961 - 2456
Emergency number: (800) – 961 - 2456

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SECTION 2 – HAZARDS IDENTIFICATION



- 2.1 Classification of the substance: Eye irritation; Cat.2B
- 2.2 Signal word: **WARNING**
- 2.3 Hazard statement: H320: Causes eye irritation.
- 2.4 Precautionary prevention statements: P102: Keep out of reach of children.
P261: Avoid breathing dust / fume/ gas / mist / vapors / spray.
P264: Wash thoroughly after handling.
P280: Wear protective gloves / protective clothing / eye protection / face protection.
- 2.5 Precautionary response statements: P302, P352: **IF ON SKIN OR HAIR:** Wash with plenty of soap and water.
P301, P330, P312: **IF SWALLOWED:** Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
P304, P340: **IF INHALED:** Remove victim to fresh air, rest in a position comfortable for breathing.
P305, P351, P338: **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing as needed.
Wash contaminated clothing before reuse.
- 2.6 Precautionary storage statement: P404: Store in a closed container.
- 2.7 Precautionary disposal statement: P501: Dispose of contents/container in accordance with local / regional / national / international regulations.
- 2.8 NFPA / HMIS rating: 2, 0, 0, B

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Hazardous components:	CAS #	% by wt.	OSHA PEL PPM mg/m ³	ACGIH TWA PPM mg/m ³	NIOSH REL mg/m ³	IDLH mg/m ³	SARA TITLE III	RQ LBS.
Sodium borate pentahydrate	12179-04-3	< 6%	10.0	2.0	5.0	ND	Not listed	None

The remaining components of this product are non-hazardous or are in small enough quantities as to not meet regulatory thresholds for disclosure. These components contain no substances or impurities which would influence the classification of this product.

All ingredients are trade secrets.

All PYROCHILL Fire Inhibitor ingredients are listed with the EPA Safer Choice Program.

SECTION 4 – FIRST AID MEASURES

- 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product. Always seek medical help for any exposure.
- After inhalation: In case of unconsciousness place patient stably in a side position for transportation.
Supply fresh air. If required, provide artificial respiration. Keep patient warm.
- After skin contact: Immediately rinse with water. Seek immediate medical advice.
- After eye contact: Remove contact lenses if worn, immediately flush eyes for 15 minutes in clear running water while holding eyelids open; seek medical attention immediately.
- After swallowing: Do not induce vomiting; call for medical help immediately. Rinse out mouth and then drink plenty of water.
A person vomiting while on their back should be turned onto their side.

PYROCHILL FIRE INHIBITOR – READY TO USE

SAFETY DATA SHEET

SECTION 5 – FIRE FIGHTING PROCEDURES

5.1	Extinguishing media:	Carbon dioxide, water fog, chemical foam, dry chemical. Material is non-flammable.
5.2	General hazards:	Avoid contact and conditions that result in agitating or foaming the material.
5.3	Advice for firefighters:	Protective equipment: Wear a self-contained respiratory protective device.
5.4	Unusual hazards:	None.
5.5	Firefighting procedures:	Keep containers cool with water spray to prevent container rupture, floor will become slippery if material is released. Material will irritate the eyes if product or fumes contact the eyes.
5.6	Decomposition compounds:	Oxides of boron, nitrogen, phosphorus, carbon, and sodium may be released with sufficient thermal energy.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1	Protective equipment and emergency procedures:	Wear protective equipment. Keep unprotected persons away. Particular danger of slipping on leaked/spilled product. ensure adequate ventilation.
6.2	Environmental precautions:	Dilute with plenty of water and do not allow it to enter sewers, surface, or ground water.
6.3	Methods and materials for containment and clean up:	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Clean the affected area carefully, dispose contaminated material as waste according to Section 13.
6.4	Reference to other sections:	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

SECTION 7 – HANDLING AND STORAGE

7.1	Precautions for safe handling:	Ensure good ventilation / exhaustion at the workplace.
7.2	Conditions for safe storage:	Do not store together with acids, foodstuffs, or metallic objects. Store in cool, dry conditions in well-sealed receptacles.
7.3	Specific end use(s):	No further relevant information available.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1	Exposure controls:	<p>General protective and hygienic measures: Keep away from foodstuffs, beverages, and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid direct contact with the eyes and skin.</p> <p>Respiratory protection: None required while threshold limits are kept below maximum allowable concentrations; if TWA exceeds limits, NIOSH approved respirator must be worn. Refer to 29 CFR 1910.134, ANSI Z88.2, or European standard EN 149 for complete regulations.</p> <p>Protection of hands: Protective gloves, the glove material must be impermeable and resistant to the product, such as neoprene, butyl, or nitrile rubber gloves with cuffs.</p> <p>Eye protection: Chemical safety glasses and / or goggles with side shields.</p> <p>Body protection: Impermeable and chemical resistant rain suit or apron and impermeable and chemical resistant boots.</p>
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SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1	Physical state:	Liquid
	Color:	Translucent
	Odor:	None
	Freezing point:	ND
	Boiling point:	ND
	Flammability:	Not flammable
	Flash point:	None
	Autoignition temperature:	ND
	Decomposition temperature:	ND
	pH (10%):	7.5 – 8.0
	Kinematic viscosity:	ND
	Solubility in water:	Complete
	Partition coefficient:	ND
	Vapor pressure:	ND
	Specific gravity (25°C):	ND
	Relative vapor density:	ND
	% volatile:	< 90% by weight
	VOC content:	None
	Evaporation rate (water = 1):	ND
9.2	Other information:	None

PYROCHILL FIRE INHIBITOR – READY TO USE

SAFETY DATA SHEET

SECTION 10 – STABILITY AND REACTIVITY

10.1	Reactivity:	No spontaneous reactivity
10.2	Chemical stability:	Thermal decomposition possible at temperatures exceeding 600°F, no decomposition if used according to specifications.
10.3	Possible hazardous reactions:	Reacts with powdered metals, reacts strongly with acids.
10.4	Conditions to avoid:	No further relevant information available.
10.5	Incompatible materials:	Strong oxidizers and acids.
10.6	Decomposition products:	Oxides of boron, phosphorus, carbon, nitrogen, and sodium.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1	Hazardous Ingredients	CAS #	EINECS #	LD 50, species, route
	Sodium borate pentahydrate	12179-04-3	215-540-4	5560 mg / kg, rat, oral

SECTION 12 – ECOLOGICAL INFORMATION

12.1	Toxicity:	Substance classified as not hazardous to aquatic environments.
12.2	Persistence and degradability:	Expected to be easily biodegradable based on composition.
12.3	Bioaccumulative potential:	Not expected to exhibit this behavior based on composition.
12.4	Soil mobility:	No specific data available.
12.5	General information:	No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

SECTION 13 – DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods:	It is recommended that small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements. Refer to 40 CFR 260 - 299 for complete waste disposal regulations for alkaline materials. Consult your local, state, or federal agency before disposing of any chemicals.
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SECTION 14 – TRANSPORTATION INFORMATION

14.1	UN number:	Not regulated
	DOT, ADR, IMDG, IATA	
14.2	Proper shipping name:	Not regulated
	DOT, ADR, IMDG, IATA	
14.3	Transport hazard class:	Not regulated
	DOT, ADR, IMDG, IATA	
14.4	Packing group:	Not regulated
	DOT, ADR, IMDG, IATA	
14.5	Environmental hazards:	Not regulated
	Marine	

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SECTION 15 – REGULATORY INFORMATION

15.1	TSCA:	All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50.
15.2	SARA TITLE III:	Not listed.
15.3	CERCLA:	None.
15.4	California Prop. 65:	Not listed.
15.5	Right-to-Know:	NJ, MA, PA for sodium borate pentahydrate (1303-96-4).
15.6	CPR classification:	WHMIS Classification D2.
15.7	Canadian IDL:	Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.
15.8	Can. DSL / NDSL:	Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.
15.9	EINECS:	Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

PYROCHILL FIRE INHIBITOR – READY TO USE

SAFETY DATA SHEET

SECTION 16 – OTHER INFORMATION

16.1 Risk phrases: H320: Causes eye irritation.
Safety phrases: P280: Wear protective gloves / protective clothing / eye protection / face protection.



Symbols for label:

Definitions: OSHA PEL: Occupational Safety and Health Act; Personal Exposure Limit
ACGIH TWA: American Conference of Governmental Industrial Hygienists: Time Weighted Average
NIOSH REL: National Institute for Occupational Safety and Health: Recommended Exposure Limits
IDLH: Immediate Danger to Life and Health
SARA TITLE III: Superfund Amendment and Reauthorization Act, Emergency Planning and Community Right-to-Know Act
ND: Not determined
RQ: Reportable quantity
APF: Assigned Protection Factor
DOT: Department of Transportation
ADR: Agreement Concerning the International Carriage of Dangerous Goods by Road
IMDG: Maritime Dangerous Goods Code
IATA: International Air Transport Association
TSCA: Toxic Substance Control Act
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act
WHIMS: Workplace Hazardous Materials Information System (Canada)

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable, and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.