



HiTHERM N.A.
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Kyle, Texas 78640
(205) 961-0009
HiTHERM.com

SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

PRODUCT: PIR400 Rigid Polyisocyanurate Foam Insulation

MANUFACTURER: HiTHERM North America, LLC.

15000 Camino Real

Kyle, Texas 78640

TEL/FAX: (205) 961-0009

TRADE NAME: Rigid Polyisocyanurate Foam Insulation

CHEMICAL NAME: Not Applicable

CHEMICAL FAMILY: Polyisocyanurate Foam

DATE REVISED: April 19, 2023

Emergency Numbers: INFOTRAC 1-800-535-5053, 24 hrs. per day, 7 days per week
HiTherm: (205) 961-0009

II. HAZARDOUS IDENTIFICATION

Overview

Physical State: Solid Block

Odor: Odorless

Color: Red

Hazards Associated with Product: Release of toxic fumes in fire situations

**GHS Classification accordance with 29 CFR 1910.1200 (OSHA HCS 2012)/
(WHIMS 2015):** This product is Not a Hazardous Substance or Mixture

Potential Health Hazards

Eye Contact: Dust may cause irritation or corneal injury due to mechanic reaction.

Skin: Non-irritating to skin. Mechanical injury only.

Ingestion: Unlikely due to physical state. May cause choking if swallowed.

Inhalation: Dust may cause irritation to the upper respiratory tract.

III COMPOSITION INFORMATION

COMPONENT	CAS NO.	%
Polymerized Modified Polyisocyanurate Rigid Cellular Plastic Foam	None Assigned	≥87-92
Proprietary Blend of Blowing Agents	Trade Secret	≤10.0

IV. FIRST AID MEASURES

Emergency and First Aid Procedures:

Eyes: Flush immediately with copious amounts of running water for at least 15 minutes holding eyelids open. Consult Physician, if necessary.

Skin: Wash affected area with soap and water.

Ingestion: Swallowing is unlikely due to the physical state of the product. My cause blocking or choking of the digestive tract, if swallowed. Do not give laxatives. Do not induce vomiting unless directed to do so by medical personnel.

Inhalation: Remove to fresh air; aid in breathing, administer oxygen or artificial respirator if necessary.

V. FIRE FIGHTING MEASURES

Extinguishing Media: Water, Dry Chemical fire extinguishers/Carbon Dioxide fire extinguishers.

Fire Extinguishing Procedures: Fire fighters must be equipped with self-contained breathing apparatus and turnout gear.

No unusual fire and explosion hazards are known. However, rigid polyurethane and polyisocyanurate foams, like other common organic materials, such as paper, wood, etc., can represent unreasonable fire risk when exposed to ignition sources in the air. Upon ignition, such fires can burn rapidly, producing intense heat, dense smoke and irritating or toxic gases. Rigid polyurethane foams auto ignite at about 800⁰ F and rigid polyisocyanurate foams at about 1000⁰ F.

Under fire conditions, carbon dioxide, carbon monoxide and possible traces of hydrogen cyanide, halogen acids and nitrogen oxides may evolve.

Even though the probability of dust explosion is very low, do not smoke, use naked lights, open flames or other ignition sources near rigid foam fabricating or storage areas. Install foam only after all welding, cutting or other hot work has been completed.

Hazardous Decomposition Products: CO, CO₂, possible traces of HCN, Hydrogen Halides and oxides of Nitrogen under fire conditions.

Incompatibility (chemicals to avoid): None Known

Hazardous Polymerization: Does not occur.

VI. ACCIDENTAL RELEASE MEASURES

Precautions if Material is Spilled or Released: Not Applicable

Waste Disposal Methods: Disposal should be in accordance with Federal, State and Local Regulations.

VII. HANDLING AND STORAGE

This material is combustible and should not be exposed to open flame or other ignition sources. Fabrication methods which involve cutting into this product may release the blowing agent remaining in the cells. Provide adequate ventilation to assure that localized concentrations in release areas are maintained below threshold levels.

Protect product from moisture when stored outdoors. Stack above ground level and cover with a suitable covering.

VIII. EXPOSURE CONTROLS PERSONAL PROTECTION

Respiratory Protection: Use NIOSH/OSHA approved particulate filter mask during fabrication.

Eye: Wear safety goggles/glasses during fabrication.

Skin: Not normally considered a skin hazard. Practice good personal hygiene.

Engineering Controls: Provide adequate local exhaust ventilation to control airborne levels below exposure guidelines.

IX. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid block
Color:	Red
Odor:	Odorless
Flash Point:	Not Applicable
Flammable Limits in Air:	Upper/Lower: Not applicable
Autoignition Temperature:	> 480 ⁰ C (ASTM D1929)
Vapor Pressure:	Not Applicable
Vapor Density (Air = 1)	Not Applicable
Specific Gravity (water = 1)	Not Applicable
Boiling Point (760 mm Hg):	Not Applicable
Freezing Point:	Not applicable
Melting Point:	Not Applicable
Solubility in Water:	Insoluble
pH:	Not Applicable
Viscosity:	Not Applicable

X. STABILITY AND REACTIVITY

Stability: Thermally stable at typical use temperatures.

Conditions to Avoid: Avoid temperatures above 206⁰ C (402⁰ F). Exposure to elevated temperatures can cause product to begin to char and decompose. Avoid exposure to direct sunlight.

Hazardous Polymerization: Will not occur.

Hazardous Decomposition Products (in case of fire): CO, CO₂, possible traces of HCN, Hydrogen Halides and oxides of Nitrogen under fire conditions.

Incompatibility Materials: Avoid contact with strong oxidizers.

XI. TOXICOLOGICAL INFORMATION

Repeated exposures to dusts of this product are not anticipated to result in systemic toxicity or permanent lung injury. However, excessive exposures may cause less severe respiratory effects.

XII. ECOLOGICAL INFORMATION

Due to the high molecular weight of this material, no bioconcentration is expected. In aquatic environments, material is expected to float. In terrestrial environment, material is expected to remain in the soil.

Surface degradation is expected with exposure to sunlight.

The material is not expected to be acutely toxic to aquatic organisms.

XIII. DISPOSAL CONSIDERATIONS

Dispose of material in accordance with Federal, State and Local Regulations.

XIV. TRANSPORTATION INFORMATION

DOT (Bulk/Non-Bulk):
Not Regulated

TDG (Bulk/Non-Bulk):
Not Regulated

IMDG: Not Regulated

ICAO/IATA: Not Regulated

XV. REGULATORY INFORMATION

GHS classification in accordance with 29 CFR 1910.1200 (OSHA HCS 2012) and the Hazardous Products Regulations (WHIMIS 2015)

Non-hazardous when used as intended.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (Acute) Health Hazard: No
Delayed (Chronic) Health Hazard: No
Fire Hazard: No
Reactive Hazard: No
Sudden Release of Pressure Hazard: No

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Right-To-Know Act of 1986) Section 313

This product does not contain chemicals at levels which require reporting under this statute.

Californian Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product does not require a warning under California Proposition 65.

Toxic Substance Control Act of (TSCA)

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30

CEPA-Domestic Substances List (DSL)

All substances in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

Preparation Date: 04-19-2023

We believe that the information contained in this SDS is correct and current, to the best of our knowledge, at the time of publication. Since the use of this information and the condition of use of this product are not within our control, it is the users obligation to determine the conditions of safe use of this product. The information herein relates only to the specific material designated. The information is given in good faith, but no warranty, expressed or implied, is made.