

## Section 1: Identification

**Product identifier:**

Product Name  
Thermarroof® Plus-3

**Relevant identified uses of the substance or mixture and uses advised against**

Recommended use  
Insulation Board

**Details of the supplier of the safety data sheet Manufacturer**

Rmax Operating, LLC  
13524 Welch Road  
Dallas, TX 75244  
United States  
www.rmax.com  
Rmax@rmax.com  
Telephone (General) 972-387-4500

Emergency telephone number only:  
Call CHEMTREC  
Day or Night within USA and Canada:  
1-800-424-9300

## Section 2: Hazard Identification

**United States (US)**
**Classification of the substance or mixture**

OSHA HCS 2012  
Not classified

**Label elements**

OSHA HCS 2012  
Hazard statements  
No label element(s) required

**Other hazards**

OSHA HCS 2012  
This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.

## Section 3 - Composition/Information on Ingredients

**Substances** Material does not meet the criteria of a substance.

**Mixtures**

Composition (varies with product thickness)				
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/ Directive
Polyisocyanurate Foam	None	99%	No data available	OSHA HCS 2012: Not Classified
Pentane	CAS:109-66-0	0% to 5%	Inhalation-Rat LC50 364 g/m <sup>3</sup> 4 Hour(s); Ingestion/Oral-Rat LD50 >2000 mg/kg	OSHA HCS 2012: Flam. Liq. 1; STOT SE 3: Narc.; Asp. Tox. 1
Aluminum Foil Laminations	None	1%	No data available	OSHA HCS 2012: Not Classified
[ Aluminum [ < 1% ]	CAS:7429-90-5	<0.01%	NDA No data available	OSHA HCS 2012: Exposure limits
Glass, oxide, chemicals	CAS:65997-17-3	0.01%	No data available	OSHA HCS 2012: Exposure limits

## Section 4: First-Aid Measures

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### Description of first aid measures

Inhalation	First aid is not expected to be necessary if materials used under ordinary conditions and as recommended. If signs/symptoms develop, get medical attention.
Skin	First aid is not expected to be necessary if materials used under ordinary conditions and as recommended. If signs/symptoms develop, get medical attention.
Eye	In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If signs/symptoms develop, get medical attention.
Ingestion	First aid is not expected to be necessary if materials used under ordinary conditions and as recommended.

### Most important symptoms and effects, both acute and delayed

Refer to Section 11 - Toxicological Information.

### Indication of any immediate medical attention and special treatment needed

Notes to Physician	Immediate medical attention after exposure to this material not expected to be necessary. No special treatment indicated related to exposure to this material.
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## Section 5: Fire-Fighting Measures

### Extinguishing media

Suitable Extinguishing Media	LARGE FIRE: Water spray, fog or regular foam. SMALL FIRES: Dry chemical, CO <sub>2</sub> , water spray or regular foam.
Unsuitable Extinguishing Media	None known

### Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards	Polyisocyanurate foam is combustible.
Hazardous Combustion Products	Carbon dioxide and carbon monoxide
Advice for fire fighters	Fire fighters should wear complete protective clothing including self-contained breathing apparatus. Structural fire fighters' protective clothing will only provide limited protection.

## Section 6 - Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

Personal Precautions	No special precautions expected to be necessary if materials used under ordinary conditions and as recommended.
Emergency Procedures	No emergency procedures are expected to be necessary if materials used under ordinary conditions as recommended.
Environmental precautions	No special environmental precautions necessary.

### Methods and material for containment and cleaning up

Containment/Clean-up Measures	Pick up pieces and vacuum clean dusts. If sweeping is necessary, use a dust suppressant.
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## Section 7 - Handling and Storage

**Precautions for safe handling**

**Handling**

Use only with adequate ventilation. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Avoid breathing dusts generated during use of this material. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

**Conditions for safe storage, including any incompatibilities**

**Storage**

Keep away from heat, sparks, and flame. Keep away from incompatible materials. Store in a cool, dry place.

## Section 8 - Exposure Controls/Personal Protection

**Control parameters**

	Result	ACGIH	NIOSH	OSHA
Pentane (109-66-0)	TWAs	1000 ppm TWA (listed under Pentane, all isomers)	120 ppm TWA; 350 mg/m <sup>3</sup> TWA	1000 ppm TWA; 2950 mg/m <sup>3</sup> TWA
	Ceilings		610 ppm Ceiling (15 min); 1800 mg/m <sup>3</sup> Ceiling (15 min)	Not established
Aluminum (7429-90-5)	TWAs	1 mg/m <sup>3</sup> TWA (respirable fraction)	10 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable dust)	15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> TWA (respirable fraction)
Glass, oxide, chemicals as Glass wool fiber	TWAs	1 fiber/cm <sup>3</sup> TWA (respirable fibers: length >5 μm, aspect ratio >=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination, listed under Synthetic vitreous fibers), as Glass wool fiber	3 fiber/cm <sup>3</sup> TWA (fibers <= 3.5 μm in diameter and >= 10 μm in length); 5 mg/m <sup>3</sup> TWA (total), as Glass wool fiber	Not established

**Exposure controls**

**Engineering Measures/Controls**

Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

**Personal Protective Equipment**

Respiratory

In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

Wear safety glasses or goggles

Skin/Body

No skin protection is ordinarily required under normal conditions of use. Protective puncture-resistant gloves and/or sleeves for handling rough-cut edges.

**Environmental Exposure Controls** Follow best practice for site management and disposal of waste.

**Key to abbreviations**

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

## Section 9 - Physical and Chemical Properties

**Information on Physical and Chemical Properties**

Material Description			
Physical Form	Solid	Appearance/ Description	Rigid foam board with foil facers - various thicknesses.
Color	White/cream foam	Odor	Odorless
General Properties			
Boiling Point	Not relevant	Melting Point	No data available
Decomposition Temperature	No data available	pH	Not relevant
Specific Gravity/Relative Density	= 0.03 Water=1	Water Solubility	Not relevant
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available

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Evaporation Rate	No data available		
<b>Flammability</b>			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Auto ignition	No data available
Flammability (solid, gas)	No data available		

## Section 10: Stability and Reactivity

<b>Reactivity</b>	No dangerous reaction known under conditions of normal use.
<b>Chemical stability</b>	Stable under normal temperatures and pressures.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization will not occur.
<b>Conditions to avoid</b>	Sources of flame and ignition.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Under normal conditions, hazardous decomposition will not occur. Thermal decomposition may emit fumes or gases, such as carbon monoxide, carbon dioxide.

## Section 11 - Toxicological Information

### Information on toxicological effects

Components		
Pentane (0% TO 5%)	109-66-0	Acute Toxicity: Ingestion/ Oral-Rat LD50 >2000 mg/kg; Inhalation-Rat LC50 364 g/m <sup>3</sup> 4 Hour(s)

### Potential Health Effects

#### Inhalation

Acute (Immediate) Exposure to dust may cause irritation.

#### Skin

Acute (Immediate) Causes mild skin irritation.

#### Eye

Acute (Immediate) Exposure to dust may cause mechanical irritation.

#### Ingestion

Acute (Immediate) Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.

### Carcinogenic Effects

Glass, oxide, chemicals as Glass wool fiber National Toxicology Program (NTP): reasonably anticipated to be Human Carcinogen

**Key to abbreviations**  
TD = Toxic Dose

## Section 12 - Ecological Information

**Toxicity and ecological data** No information available.

## Section 13 - Disposal Considerations

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## Waste treatment methods

### Product waste

Dispose of content and/or container in accordance with local, regional, national, and/ or international regulations.

### Packaging waste

Dispose of content and/or container in accordance with local, regional, national, and/ or international regulations.

## Section 14 - Transport Information

DOT, TDG, IMO/IMDG, IATA/ICAO Not regulated.

Special precautions for user None specified.

Transport in bulk according to Annex II of MARPO73/78 and the IBC Code No data available

## Section 15 - Regulatory Information

### Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications None

Component	State Right To Know				Inventory
	CAS	MA	NJ	PA	TSCA
Polyisocyanurate Foam	None	No	No	No	Yes
Pentane	109-66-0	Yes	Yes	Yes	Yes
Aluminum	7429-90-5	Yes	Yes	Yes	Yes
Glass oxide, chemicals	65997-17-3	No	No	No	Yes

OSHA – Process Safety Management, Highly Hazardous Chemicals Not Listed

OSHA – Specifically Regulated Chemicals Not Listed

Clean Air Act (CAA) – 1990 Hazardous Air Pollutants Not Listed

### CERCLA/SARA - Section 313 - Emission Reporting

Aluminum 7429-90-5 1.0 % de minimis concentration (dust or fume only)

California - Proposition 65 Not Listed

## Section 16 - Other Information

Preparation Date: 05/29/2015

Last Revision Date: 11/29/2016

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