Section 1: Identification

Product identifier:
Product Name

Thermasheath®-XP

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^3 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

Section 4: First-Aid Measures

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.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media	LARGE FIRE: Water spray, fog or regular foam. SMALL FIRES: Dry chemical, CO2, 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.

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/m3 TWA	1000 ppm TWA; 2950 mg/m3 TWA
	Ceilings		610 ppm Ceiling (15 min); 1800 mg/m3 Ceiling (15 min)	Not established
Aluminum (7429-90-5)	TWAs	1 mg/m3 TWA (respirable fraction)	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)	15 mg/m3 TWA (total dust); 5 mg/m3 TWA respirable fraction)

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
Evaporation Rate	No data available		
Flammability			
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

Reactivity No dangerous reaction known under conditions of normal use.

Chemical stability Stable under normal temperatures and pressures.

Possibility of hazardous reactions Hazardous polymerization will not occur.

Conditions to avoid Sources of flame and ignition.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products 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^3 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

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

		State Right To Know			Inventory
Component	**CAS**	**MA**	**NJ**	**PA**	**TSCA**
Aluminum	7429-90-5	Yes	Yes	Yes	Yes
Pentane	109-66-0	Yes	Yes	Yes	Yes
Polyisocyanurate Foam	None	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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