Section 1: Identification

Product identifier:
Product Name(s)

TSX-8500  
TSX-8510

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

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)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
<th>LD50/LC50</th>
<th>Classifications According to Regulation/Directive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyisocyanurate Foam</td>
<td>None</td>
<td>99%</td>
<td>No data available</td>
<td>OSHA HCS 2012: Not Classified</td>
</tr>
<tr>
<td>Pentane</td>
<td>CAS:109-66-0</td>
<td>0% to 5%</td>
<td>Inhalation-Rat LC50 364 g/m³ 4 Hour(s); Ingestion/Oral-Rat LD50 &gt;2000 mg/kg</td>
<td>OSHA HCS 2012: Flam. Liq. 1; STOT SE 3: Narc.; Asp. Tox. 1</td>
</tr>
<tr>
<td>Aluminum Foil Laminations</td>
<td>None</td>
<td>1%</td>
<td>No data available</td>
<td>OSHA HCS 2012: Not Classified</td>
</tr>
<tr>
<td>Aluminum (&lt; 1%)</td>
<td>CAS:7429-90-5</td>
<td>&lt;0.01%</td>
<td>NDA No data available</td>
<td>OSHA HCS 2012: Exposure limits</td>
</tr>
<tr>
<td>Glass, oxide, chemicals</td>
<td>CAS:65997-17-3</td>
<td>0.01%</td>
<td>No data available</td>
<td>OSHA HCS 2012: Exposure limits</td>
</tr>
</tbody>
</table>
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.

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**Section 8 - Exposure Controls/Personal Protection**

### Control parameters

<table>
<thead>
<tr>
<th></th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Result</strong></td>
<td>1000 ppm TWA (listed under Pentane, all isomers)</td>
<td>120 ppm TWA; 350 mg/m3 TWA</td>
<td>1000 ppm TWA; 2950 mg/m3 TWA</td>
</tr>
<tr>
<td><strong>Pentane</strong></td>
<td>TWA</td>
<td>Ceiling (15 min); 1800 mg/m3 Ceiling (15 min)</td>
<td>Not established</td>
</tr>
<tr>
<td>(109-66-0)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aluminum</strong></td>
<td>1 mg/m3 TWA (respirable fraction)</td>
<td>10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)</td>
<td>15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)</td>
</tr>
<tr>
<td>(7429-90-5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Glass, oxide, chemicals as Glass wool fiber</strong></td>
<td>1 fiber/cm³ TWA (respirable fibers: length &gt;5 µm, aspect ratio &gt;=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</td>
<td>3 fiber/cm³ TWA (fibers &lt;= 3.5 µm in diameter and &gt;= 10 µm in length); 5 mg/m³ TWA (total), as Glass wool fiber</td>
<td>Not established</td>
</tr>
<tr>
<td>TWA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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.

---

**Section 9 - Physical and Chemical Properties**

### Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th><strong>Physical Form</strong></th>
<th>Solid</th>
<th><strong>Appearance/ Description</strong></th>
<th>Rigid foam board with foil facers - various thicknesses.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Color</strong></td>
<td>White/cream foam</td>
<td><strong>Odor</strong></td>
<td>Odorless</td>
</tr>
</tbody>
</table>

**General Properties**

<table>
<thead>
<tr>
<th><strong>Boiling Point</strong></th>
<th>Not relevant</th>
<th><strong>Melting Point</strong></th>
<th>No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Decomposition Temperature</strong></td>
<td>No data available</td>
<td><strong>pH</strong></td>
<td>Not relevant</td>
</tr>
<tr>
<td><strong>Specific Gravity/Relative Density</strong></td>
<td>= 0.03 Water=1</td>
<td><strong>Water Solubility</strong></td>
<td>Not relevant</td>
</tr>
</tbody>
</table>

---

**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 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

<table>
<thead>
<tr>
<th>Components</th>
<th><strong>Acute Toxicity</strong>: Ingestion/ Oral-Rat LD50 &gt;2000 mg/kg; Inhalation-Rat LC50 364 g/m³ 4 Hour(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentane (0% TO 5%)</td>
<td>109-66-0</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>MA</th>
<th>NJ</th>
<th>PA</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum</td>
<td>7429-90-5</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Glass oxide, chemicals</td>
<td>65997-17-3</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Polyisocyanurate Foam</td>
<td>None</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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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