Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
085 Insulfoam Molded EPS and GPS Products

Trade Names
Part Number(s): Type I, VIII, II, IX, XIV and XV, EPS 12,15,19, 22,29,39,46, Treated, R-Tech and Platinum. Highly customizable: Thickness up to 40" in a single board. With or with out Polypropylene, Polyethylene or Polyester films

Synonyms
Molded Expanded Polystyrene (MEPS)

Product Use
Insulation materials, Industrial use, Consumer use. packaging.

Restrictions on Use
None known

Manufacturer Information
Insulfoam, a division of Carlisle Construction Materials
19727 57th Avenue East
Puyallup, WA 98375
253-271-3056

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.
Combustible Dust

GHS Label

Elements

Signal Word
Warning

Hazard Statement(s)
May form combustible dust concentrations in air

Precautionary Statement(s)
Prevention
Safety Data Sheet

Material Name: 085 Insulfoam Molded EPS Products

Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-53-6</td>
<td>Polystyrene</td>
<td>92-97</td>
</tr>
<tr>
<td>109-66-0</td>
<td>Pentane</td>
<td>&lt;2</td>
</tr>
<tr>
<td>Proprietary</td>
<td>Non hazardous ingredient</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Proprietary</td>
<td>Polymeric Film(^1)</td>
<td>1-3</td>
</tr>
</tbody>
</table>

\(^1\) R-Tech

Section 4 - FIRST AID MEASURES

Description of Necessary Measures
IF exposed or concerned: Get medical advice/attention.

Inhalation
If adverse effects occur, remove to uncontaminated area. Get medical advice/attention if you feel unwell.

Skin
Wash with plenty of soap and water. Get medical attention, if needed.

Eyes
Rinse cautiously with water for several minutes. Get medical attention, if needed.

Ingestion
If swallowed, get medical attention.

Most Important Symptoms/Effects
Acute
No information on significant adverse effects.
Safety Data Sheet

Material Name: 085 Insulfoam Molded EPS Products

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media
Use carbon dioxide, regular dry chemical, regular foam or water.

Unsuitable Extinguishing Media
None known

Special Hazards Arising from the Chemical
Slight fire hazard. Combustible Dust. Dust/air mixtures may ignite or explode. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Hazardous Combustion Products
Oxides of carbon, hydrogen bromide

Advice for firefighters
Wear personal protective clothing and equipment such as self-contained breathing apparatus (SCBA) for protection against possible exposure.

Fire Fighting Measures
Do not scatter spilled material with high-pressure water streams. Move container from fire area if it can be done without risk. Dike for later disposal.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up
Do not touch or walk through spilled material. Stop leak if possible without personal risk. Prevent dust cloud. Avoid inhalation of material or combustion by-products. Collect spilled material in appropriate container for disposal.

Environmental Precautions
Avoid release to the environment. Collect spillage.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling
Combustible substance. Minimize dust generation and accumulation. Use methods to minimize dust. Eliminate all sources of ignition. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Do not eat, drink or smoke
Safety Data Sheet

Material Name: 085 Insulfoam Molded EPS Products

When using this product. Do not breathe dusts or mists. Do not get in eyes, on skin, or on clothing.

Conditions for Safe Storage, Including any Incompatibilities

Store locked up
Store in a cool dry place. Store in a well-ventilated place. Keep away from heat and ignition sources. Keep away from incompatible materials.

Incompatible Materials

Organic solvents, aldehydes, amines

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
</tr>
<tr>
<td>ACGIH:</td>
<td>1000 ppm TWA</td>
</tr>
<tr>
<td>NIOSH:</td>
<td>120 ppm TWA; 350 mg/m³ TWA</td>
</tr>
<tr>
<td></td>
<td>610 ppm Ceiling 15 min; 1800 mg/m³ Ceiling 15 min</td>
</tr>
<tr>
<td></td>
<td>1500 ppm IDLH (10% LEL)</td>
</tr>
<tr>
<td>Europe:</td>
<td>1000 ppm TWA; 3000 mg/m³ TWA</td>
</tr>
<tr>
<td>OSHA (US):</td>
<td>1000 ppm TWA; 2950 mg/m³ TWA</td>
</tr>
<tr>
<td>Mexico:</td>
<td>600 ppm TWA LMPE-PPT; 1800 mg/m³ TWA LMPE-PPT</td>
</tr>
<tr>
<td></td>
<td>760 ppm STEL [LMPE-CT]; 2250 mg/m³ STEL [LMPE-CT]</td>
</tr>
</tbody>
</table>

Biological limit value

There are no biological limit values for any of this product's components.

Engineering Controls

Provide adequate ventilation. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Wear chemical safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear appropriate chemical resistant clothing.

Respiratory Protection

Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

Glove Recommendations

Wear appropriate chemical resistant gloves.
Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>foam</td>
<td>Physical State</td>
<td>solid</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight, pentane</td>
<td>Color</td>
<td>white</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>160 °F (softens)</td>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
<td>Evaporation Rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point Range</td>
<td>Not available</td>
<td>Flammability (solid, gas)</td>
<td>2</td>
</tr>
<tr>
<td>Autoignition</td>
<td>850 °F</td>
<td>Flash Point</td>
<td>610 °F</td>
</tr>
<tr>
<td>Lower Explosive Limit</td>
<td>Not available</td>
<td>Decomposition</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper Explosive Limit</td>
<td>Not available</td>
<td>Vapor Pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Density (air=1)</td>
<td>Not available</td>
<td>Specific Gravity (water=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble</td>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Solid</td>
<td>Solubility (Other)</td>
<td>Not available</td>
</tr>
<tr>
<td>Density</td>
<td>0.6 - 3 pcf</td>
<td>VOC</td>
<td>&lt;1.8 % (Pentane and Water)</td>
</tr>
</tbody>
</table>

Section 10 - STABILITY AND REACTIVITY

Reactivity
No reactivity hazard is expected.

Chemical Stability
Stable at normal temperatures and pressure.

Possibility of Hazardous Reactions
Will not polymerize.

Conditions to Avoid
Keep away from heat/sparks/open flame/hot surfaces - No smoking. Avoid contact with incompatible materials.

Incompatible Materials
Organic solvents, aldehydes, amines

Hazardous decomposition products
Oxides of carbon, hydrogen bromide
Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation
Dust may cause irritation of the nose, throat and upper respiratory tract.

Skin Contact
May cause mechanical irritation.

Eye Contact
May cause mechanical irritation.

Ingestion
No information on significant adverse effects.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:

- Pentane (109-66-0)
  - Oral LD50 Mouse 5000 mg/kg
  - Dermal LD50 Rabbit 3000 mg/kg
  - Inhalation LC50 Rat 364 g/m\(^3\) 4 h

Immediate Effects
No information on significant adverse effects.

Irritation/Corrosivity Data
No information available for the product.

Respiratory Sensitization
No information available for the product.

Dermal Sensitization
No information available for the product.

Component Carcinogenicity

<table>
<thead>
<tr>
<th>Component</th>
<th>IARC Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polystyrene</td>
<td>Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))</td>
</tr>
</tbody>
</table>

Germ Cell Mutagenicity
No information available for the product.

Tumorigenic Data
No information available for the product.

Reproductive Toxicity
No information available for the product.

Specific Target Organ Toxicity - Single Exposure
Material Name: 085 Insulfoam Molded EPS Products

No target organs identified.

Specific Target Organ Toxicity - Repeated Exposure
No target organs identified.

Aspiration hazard
No information available for the product.

Medical Conditions Aggravated by Exposure
No data available.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity
Harmful to aquatic life with long lasting effects.

Component Analysis - Aquatic Toxicity

<table>
<thead>
<tr>
<th>Pentane</th>
<th>109-66-0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish:</td>
<td>LC50 96 h Oncorhynchus mykiss 9.87 mg/L; LC50 96 h Pimephales promelas 11.59 mg/L; LC50 96 h Lepomis macrochirus 9.99 mg/L</td>
</tr>
<tr>
<td>Invertebrate:</td>
<td>EC50 48 h Daphnia magna 9.74 mg/L IUCLID</td>
</tr>
</tbody>
</table>

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods
Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14 - TRANSPORT INFORMATION

US DOT Information:
UN/NA #: Not Regulated

IATA Information:
UN#: Not Regulated

IMDG Information:
UN#: Not Regulated

TDG Information:
UN#: Not Regulated
Section 15 - REGULATORY INFORMATION

U.S. State Regulations
The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

California Proposition 65:
Warning: this product can expose you to chemicals including Styrene, which are known to the State of California to cause cancer.

Canadian WHMIS Ingredient Disclosure List (IDL)
Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Component Analysis - Inventory
Polystyrene (9003-53-6)

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentane</td>
<td>Yes</td>
<td>DSL</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

HMIS Rating
Health: 1* Fire: 2 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

NFPA Ratings
Health: 1 Fire: 2 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe
Summary of
Changes Rev. SDS:
5/10/2018

Key / Legend
ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport;
AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical
Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability
Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products
Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD -
Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic
Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA -
Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency
for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil
Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and
Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition
coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ -
ChemADVISOR’s Regulatory Database; MAK - Maximum Concentration Value in the Workplace;
MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute
for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National
Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH -
Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation,
Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund
Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of
Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper
Explosive Limit; US - United States.

Other Information

Disclaimer:
The information contained herein is based upon data and information available to us, and reflects our best
professional judgment. This product may be formulated in part with components purchased from other
companies. No warranty of merchantability, fitness for any use, or any other warranty is expressed or
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particular use.