Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
085 Insulfoam Molded EPS Products

Trade Names
Part Number(s): Type I, VIII, II, IX, XIV and XV, R-Tech. Highly customizable: Thickness up to 40" in a single board

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
Reproductive Toxicity - Category 2
Reproductive Toxicity - Effects on or via Lactation

GHS Label Elements

Signal Word
Warning

Hazard Statement(s)
May form combustible dust concentrations in air
Suspected of damaging fertility or the unborn child
May cause harm to breast-fed children

Precautionary Statement(s)
Prevention
Material Name: 085 Insulfoam Molded EPS Products

Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Wear protective gloves/protective clothing/eye protection/face protection
Wash thoroughly after handling
Do not eat, drink or smoke when using this product
Avoid contact during pregnancy/while nursing
Do not breathe dusts or mists

Response
IF exposed or concerned: Get medical advice/attention

Storage
Store locked up

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

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>3194-55-6</td>
<td>1,2,5,6,9,10-Hexabromocyclododecane</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Proprietary</td>
<td>Polymeric Film</td>
<td>1-3</td>
</tr>
</tbody>
</table>

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.
Material Name: 085 Insulfoam Molded EPS Products

Delayed
Suspected of damaging fertility or the unborn child. May cause harm to breast-fed children.

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
when using this product. Avoid contact during pregnancy/while nursing. 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>Exposure Limit</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>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>foam</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight, pentane</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>160 °F (softens)</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point Range</td>
<td>Not available</td>
</tr>
<tr>
<td>Autoignition</td>
<td>850 °F</td>
</tr>
<tr>
<td>Flash Point</td>
<td>610 °F</td>
</tr>
<tr>
<td>Lower Explosive Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper Explosive Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Density (air=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific Gravity (water=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Solid</td>
</tr>
<tr>
<td>Solubility (Other)</td>
<td>Not available</td>
</tr>
<tr>
<td>Density</td>
<td>0.6 - 3 pcf</td>
</tr>
<tr>
<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/m3 4 h

Immediate Effects
No information on significant adverse effects.

Delayed Effects
Suspected of damaging fertility or the unborn child. May cause harm to breast-fed children.

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:</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
Suspected of damaging fertility or the unborn child. May cause harm to breast fed children.

Specific Target Organ Toxicity - Single Exposure
Safety Data Sheet

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>Component</th>
<th>Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
</tr>
<tr>
<td>Fish:</td>
<td>LC50 96 h Oncorhynchus mykiss 9.87 mg/L;</td>
</tr>
<tr>
<td></td>
<td>LC50 96 h Pimephales promelas 11.59 mg/L;</td>
</tr>
<tr>
<td></td>
<td>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
U.S. Federal Regulations
This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

<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>1,2,5,6,9,10-Hexabromocyclododecane</td>
<td>3194-55-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSCA 12b:</td>
<td>Section 5, 1 % de minimus concentration</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SARA Section 311/312 (40 CFR 370 Subparts B and C)
Acute Health: No Chronic Health: Yes Fire: No Pressure: No Reactivity: No

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>

Not listed under California Proposition 65

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></th>
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<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>Yes</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>

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

Pentane (109-66-0)

1,2,5,6,9,10-Hexabromocyclododecane (3194-55-6)
Section 16 - OTHER INFORMATION

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
New SDS: 5/22/2015

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; LOHI - 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 implied regarding the accuracy of such data or information. The results to be obtained from the use thereof, or that any such use does not infringe any patent, since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not
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