

## Safety Data Sheet

**Material Name: 085 Insulfoam Molded EPS Products**

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### Section 1 - PRODUCT AND COMPANY IDENTIFICATION

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**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 57<sup>th</sup> Avenue East  
Puyallup, WA 98375  
253-271-3056

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### Section 2 - HAZARDS IDENTIFICATION

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**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**

**Symbol(s)**



**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**

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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

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## Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

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CAS	Component Name	Percent
9003-53-6	Polystyrene	92-97
109-66-0	Pentane	<2
3194-55-6	1,2,5,6,9,10-Hexabromocyclododecane	<1
Proprietary	Polymeric Film	1-3

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## Section 4 - FIRST AID MEASURES

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### 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.

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**Delayed**

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

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### Section 5 - FIRE FIGHTING MEASURES

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**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.

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### Section 6 - ACCIDENTAL RELEASE MEASURES

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**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.

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### Section 7 - HANDLING AND STORAGE

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**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

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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

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## Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

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### Component Exposure Limits

<b>Pentane</b>	109-66-0
ACGIH:	1000 ppm TWA
NIOSH:	120 ppm TWA; 350 mg/m <sup>3</sup> TWA
	610 ppm Ceiling 15 min; 1800 mg/m <sup>3</sup> Ceiling 15 min
	1500 ppm IDLH (10% LEL)
Europe:	1000 ppm TWA; 3000 mg/m <sup>3</sup> TWA
OSHA (US):	1000 ppm TWA; 2950 mg/m <sup>3</sup> TWA
Mexico:	600 ppm TWA LMPE-PPT; 1800 mg/m <sup>3</sup> TWA LMPE-PPT
	760 ppm STEL [LMPE-CT]; 2250 mg/m <sup>3</sup> STEL [LMPE-CT]

### 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.

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### Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

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

### 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

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### Section 11 - TOXICOLOGICAL INFORMATION

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#### 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<sup>3</sup> 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

Polystyrene	9003-53-6
IARC:	Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))

##### Germ Cell Mutagenicity

No information available for the product.

##### Tumorigenic Data

No information available for the product.

##### Reproductive Toxicity

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##### Specific Target Organ Toxicity - Single Exposure

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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.

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### Section 12 - ECOLOGICAL INFORMATION

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**Ecotoxicity**

Harmful to aquatic life with long lasting effects.

**Component Analysis - Aquatic Toxicity**

<b>Pentane</b>	109-66-0
Fish:	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
Invertebrate:	EC50 48 h Daphnia magna 9.74 mg/L IUCLID

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### Section 13 - DISPOSAL CONSIDERATIONS

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**Disposal Methods**

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

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### Section 14 - TRANSPORT INFORMATION

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**US DOT Information:**

UN/NA #: Not Regulated

**IATA Information:**

UN#: Not Regulated

**IMDG Information:**

UN#: Not Regulated

**TDG Information:**

UN#: Not Regulated

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### Section 15 - REGULATORY INFORMATION

#### 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.

1,2,5,6,9,10-Hexabromocyclododecane	3194-55-6
TSCA 12b:	Section 5 , 1 % de minimus concentration

#### 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:

Component	CAS	CA	MA	MN	NJ	PA
Pentane	109-66-0	Yes	Yes	Yes	Yes	Yes

#### 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

Pentane	109-66-0
	1 %

#### Component Analysis - Inventory

Polystyrene (9003-53-6)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	No	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

Pentane (109-66-0)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes

1,2,5,6,9,10-Hexabromocyclododecane (3194-55-6)

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR - KECI/KECL	KR - TCCA	CN	NZ	MX
Yes	DSL	EIN	Yes	Yes	Yes	No	Yes	No	Yes	Yes	No



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### Section 16 - OTHER INFORMATION

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#### 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; 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 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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assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use