



# PIPFOAM 400

## SAFETY DATA SHEET

Compliant SDS for GHS - Canada WHMIS 2015    Compliant SDS for GHS – HCS 2012 United States

SECTION 1: IDENTIFICATION	
Supplier/Manufacturer: Huntsman Building Solutions 3315 E Division St Arlington, TX 76011 Phone: 817-640-4900 / Fax: 817-633-2000 E-mail: info@huntsmanbuilds.com Website: www.huntsmanbuildingsolutions.com	GHS Product Identifier: PIP Foam 400 Product code: PIP Foam 400 Chemical Name: Polyurethane Resin. Product type: Liquid. Identified Use: Component B of a polyurethane insulation foam system. Component B and a polyurethane structural foam system.
Emergency Telephone (24/7):	In Canada: CANUTEC 613-996-6666 or *666 (cellular). In USA: CHEMTREC 800-424-9300

SECTION 2: HAZARDS IDENTIFICATION	
OSHA/HCS Status	This material is classified hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the Substance or Mixture	SKIN SENSITIZATION - Category 1
<b>GHS label elements</b>	
Hazard Pictograms	
Signal Word	Warning
Hazard Statements	May cause an allergic skin reaction.
<b>PRECAUTIONARY STATEMENTS</b>	
Prevention	Wear protective gloves. Avoid breathing vapor. Contaminated work clothing should not be allowed out of the workplace.
Response	Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.
Storage	Not applicable.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)</b>	
Physical Hazards Not Otherwise Classified (PHNOC)	None known.
Health Hazards Not Otherwise Classified (HHNOC)	None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS	
Substance/Mixture	Mixture.
Chemical Name	Polyurethane Resin
<b>CAS NUMBER/OTHER IDENTIFIERS</b>	
CAS Number	Not applicable.
Product Code	PIP Foam 400

INGREDIENTS	CAS #	%
tris(2-Chloro-1-methylethyl) phosphate	13674-84-5	≥5 - ≤10
1-Propene, 1-chloro-3,3,3-trifluoro-, (1E)-	102687-65-0	≥1 - ≤5
1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate	6846-50-0	≥1 - ≤5
Poly[oxy(methyl-1,2-ethanediyl)], α-hydro-ω-hydroxy-, ether with [[2-[(2-hydroxyethyl)(2-hydroxymethylethyl)amino]ethyl]imino]bis[propano]](4:1)	31568-06-6	≥0.1 - ≤1

**United States:** The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with paragraph (l) of §1910.1200.

**Canada:** The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: FIRST AID MEASURES	
DESCRIPTION OF NECESSARY FIRST AID MEASURES	
Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20minutes. Get medical attention if irritation occurs.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED	
POTENTIAL ACUTE HEALTH EFFECTS	
Eye Contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin Contact	May cause an allergic reaction.
Ingestion	No known significant effects or critical hazards.
OVER-EXPOSURE SIGNS/SYMPTOMS	
Eye Contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin Contact	Adverse symptoms may include the following: irritation, redness.
Ingestion	No known significant effects or critical hazards.
INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY	
Notes to Physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific Treatments	No specific treatment.
Protection of First-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

SECTION 5: FIRE-FIGHTING MEASURES	
Suitable Extinguishing Media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable Extinguishing Media	None known.
Specific Hazards Arising from the Chemical	No specific fire or explosion hazard.
Hazardous Thermal Decomposition Products	Decomposition products may include the following materials: carbon dioxide, carbon monoxide, phosphorus oxides, halogenated compounds.
Special Protective Actions for Fire Fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special Protective Equipment for Fire Fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6: ACCIDENTAL RELEASE MEASURES	
PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	
For Non-emergency Personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For Emergency Responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental Precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP	
Small Spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE	
PRECAUTIONS FOR SAFE HANDLING	
Protective Measures	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on General Occupational Hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Storage Temperature	15 – 25°C (59 – 77°F) (minimum – maximum).
Storage Life	6 Months.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### CONTROL PARAMETERS

United States

Occupational exposure limits

Ingredient name	Exposure limits
tris(2-Chloro-1-methylethyl) phosphate	None.
1-Propene, 1-chloro-3,3,3-trifluoro-, (1E)-	<b>AIHA WEEL (United States, 7/2018).</b> TWA: 800 ppm 8 hours.
1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate	None.
Poly[oxy(methyl-1,2-ethanediy)], $\alpha$ -hydro- $\omega$ -hydroxy-, ether with [[2-[(2-hydroxyethyl)(2-hydroxymethylethyl)amino]ethyl]imino]bis[propano]](4:1)	None.

Canada

Occupational exposure limits

Ingredient name	Exposures limits
1-Propene, 1-chloro-3,3,3-trifluoro-, (1E)-	<b>AIHA WEEL (United States, 7/2018).</b> TWA: 800 ppm 8 hours.
Appropriate engineering controls	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirement of environmental protection legislation.

### INDIVIDUAL PROTECTION MEASURES

Hygiene Measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/Face Protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.
Hand Protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body Protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other Skin Protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid, clear.
Color	Blue.
Odor	Slight amine.
Odor Threshold	Not available.

pH	Not available.
Melting Point	Not available.
Boiling Point	Not available.
Flash Point	Closed Cup: >93°C (>200°F)
Evaporation Rate	Not available.
Flammability (Solid, Gas)	Not available.
Lower and Upper Explosive (Flammable) Limits	Not available.
Vapor Pressure	Not available.
Vapor Density	Not available.
Specific Gravity @ 25°C (77°F)	1.12-1.18
Solubility	Moderately soluble in water.
Partition Coefficient: N-Octanol/Water	Not available.
Auto-Ignition Temperature	Not available.
Decomposition Temperature	Not available.
Viscosity @ 25°C (77°F) (cps)	Not available.
Volatility	Not available.

#### SECTION 10: STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability	The product is stable.
Possibility of Hazardous Reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to Avoid	Avoid exposure to moisture and high temperatures to protect product quality.
Incompatible Materials	Reactive or incompatible with the following materials: oxidizing materials. Avoid unintended contact with isocyanates.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### SECTION 11: TOXICOLOGICAL INFORMATION

##### INFORMATION ON TOXICOLOGICAL EFFECTS

##### ACUTE TOXICITY

Product / Ingredient Name	Result	Species	Dose	Exposure
tris(2-Chloro-1-methylethyl) phosphate	LD50 Oral	Rat	1500 mg/kg	-

##### IRRITATION / CORROSION

Product / Ingredient Name	Result	Species	Score	Exposure	Observation
1-Isopropyl-2,2-dimethyl- trimethylene diisobutyrate	Skin - Mild irritant	Guinea pig	-	5 gm	-
	Skin - Mild irritant	Human	-	504 hours	-

##### SENSITIZATION

There is no data available.

##### MUTAGENICITY

There is no data available.

##### CARCINOGENICITY

There is no data available.

##### REPRODUCTIVE TOXICITY

There is no data available.

<b>TERATOGENICITY</b>					
There is no data available.					
<b>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)</b>					
There is no data available.					
<b>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)</b>					
There is no data available.					
<b>ASPIRATION HAZARD</b>					
There is no data available.					
<b>INFORMATION ON THE LIKELY ROUTES OF EXPOSURE</b>					
Routes of entry anticipated: Oral, Dermal, Inhalation.					
<b>POTENTIAL ACUTE HEALTH EFFECTS</b>					
Eye Contact	No known significant effects or critical hazards.				
Inhalation	No known significant effects or critical hazards.				
Skin Contact	May cause an allergic skin reaction.				
Ingestion	No known significant effects or critical hazards.				
<b>SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS</b>					
Eye Contact	No known significant effects or critical hazards.				
Inhalation	No significant known effects or critical hazards.				
Skin Contact	Adverse symptoms may include the following: irritation, redness.				
Ingestion	No known significant effects or critical hazards.				
<b>DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE</b>					
<b>SHORT TERM EXPOSURE</b>					
Potential Immediate Effects	No known significant effects or critical hazards.				
Potential Delayed Effects	No known significant effects or critical hazards.				
<b>LONG TERM EXPOSURE</b>					
Potential Immediate Effects	No known significant effects or critical hazards.				
Potential Delayed Effects	No known significant effects or critical hazards.				
<b>POTENTIAL CHRONIC HEALTH EFFECTS</b>					
General	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.				
Carcinogenicity	No known significant effects or critical hazards.				
Mutagenicity	No known significant effects or critical hazards.				
Reproductive toxicity	No known significant effects or critical hazards.				
<b>NUMERICAL MEASURES OF TOXICITY - ACUTE TOXICITY ESTIMATES</b>					
Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
PIP Foam 500 resin	20576.1	N/A	N/A	N/A	N/A
tris(2-Chloro-1-methylethyl) phosphate	1500	N/A	N/A	N/A	N/A

**SECTION 12: ECOLOGICAL INFORMATION**

**TOXICITY**

There is no data available.

**PERSISTENCE AND DEGRADABILITY**

There is no data available.

**BIOACCUMULATIVE POTENTIAL**

Product / Ingredient Name	LogP <sub>ow</sub>	BCF	Potential
tris(2-Chloro-1-methylethyl) phosphate	2.68	0.8 to 2.8	low
1-Isopropyl-2,2-dimethyltrimethylene diisobutyrate	-	5340	high
<b>MOBILITY IN SOIL</b>			
Soil/Water Partition Coefficient (K <sub>oc</sub> )	Not available.		
Other Adverse Effects	No known significant effects or critical hazards.		

### SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
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### SECTION 14: TRANSPORTATION INFORMATION

<b>DOT</b>	
UN Number	Not regulated.
UN Proper Shipping Name	-
Transport Hazard Class(es)	-
Packing Group	-
Environmental Hazard	No.
Additional Information	-
<b>TDG</b>	
UN Number	Not regulated.
UN Proper Shipping Name	-
Transport Hazard Class(es)	-
Packing group	-
Environmental hazard	No.
Additional information	-
<b>IMDG</b>	
UN Number	Not regulated.
UN Proper Shipping Name	-
Transport Hazard Class(es)	-
Packing Group	-
Environmental Hazard	No.
Additional Information	-
<b>IATA</b>	
UN Number	Not regulated.
UN Proper Shipping Name	-
Transport Hazard Class(es)	-

Packing Group	-
Environmental Hazard	No.
Additional Information	-

**AERG:** Not applicable.

Special Precautions for User	<b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in bulk according to IMO instruments	Not available.

### SECTION 15: REGULATORY INFORMATION

U.S. Federal regulations	TSCA 8(a) CDR Exempt/Partial exemption: Not determined.	
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	Listed.	
Clean Air Act Section 602 Class I Substances	Not listed.	
Clean Air Act Section 602 Class II Substances	Not listed.	
DEA List I Chemicals (Precursor Chemicals)	Not listed.	
DEA List II Chemicals (Essential Chemicals)	Not listed.	
SARA 302/304		
Composition/information on ingredients		
No products were found.		
SARA 304 RQ	Not applicable.	
SARA 311/312		
Classification	SKIN SENSITIZATION - Category 1	
Composition/ information on ingredients		
Name	%	Classification
tris(2-Chloro-1-methylethyl) phosphate	≥5 - ≤10	ACUTE TOXICITY (oral) – Category 4
Poly[oxy(methyl-1,2-ethanediyl)], α-hydro-ω-hydroxy-, ether with [[2-[(2-hydroxyethyl)(2-(hydroxymethylethyl)amino) ethyl] imino]bis[propanol]](4:1)	≥0.3- ≤1	SKIN SENSITIZATION - Category 1
State regulations		
Massachusetts	None of the components are listed.	
New York	None of the components are listed.	
New Jersey	None of the components are listed.	
Pensylvania	None of the components are listed.	
California Prop. 65		
 <b>WARNING:</b> This product can expose you to Ethanediol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .		
Ingredient name	No significant risk level	Maximum acceptable dosage level
Ethanediol	-	Yes.
<b>CANADIAN LISTS</b>		
Canadian NPRI	The following components are listed: Ethanediol.	
CEPA Toxic substances	None of the components are listed.	
INTERNATIONAL REGULATIONS		

Chemical Weapon Convention List Schedules I, II & III Chemicals	
Not listed.	
Montreal Protocol	
Not listed.	
Stockholm Convention on Persistent Organic Pollutants	
Not listed.	
Rotterdam Convention on Prior Informed Consent (PIC)	
Not listed.	
UNECE Aarhus Protocol on POPs and Heavy Metals	
Not listed.	
Inventory List	
Canada	All components are listed or exempted.
United States	All components are active or exempted.

### SECTION 16: OTHER INFORMATION

#### PROCEDURE USED TO DERIVE THE CLASSIFICATION

Classification	Justification
SKIN SENSITIZATION - Category 1	Calculation method.

#### HISTORY

Prepared by	Huntsman Building Solutions – EHS Dept.
Preparation Date (y-m-d)	2021-04-07
Current Issue Date (y-m-d)	2021-04-07

#### KEY TO ABBREVIATIONS

ATE	Acute Toxicity Estimate
BCF	Bioconcentration Factor
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
IMDG	International Maritime Dangerous Goods
LogPow	Logarithm of the octanol/water partition coefficient
MARPOL 73/78	International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN	United Nations

#### Notice to reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.