

HEATLOK® XT SAFETY DATA SHEET - B-SIDE

SECTION 1: PRODUCT & COMPANY INFORMATION

Supplier / Manufacturer: **Huntsman Building Solutions**

3315 E. Division Street, Arlington, TX 76011 Phone: 817-640-4900 / Fax: 817-633-2000 E-mail: Info@huntsmanbuilds.com

Website: www.huntsmanbildingsolutions.com

GHS Product Identifier: Heatlok® XT B-side Chemical Name: Polyurethane Resin / B-side

Product Type: Liquid

Identified Use: Component B of a Spray-Applied Polyurethane System

Emergency Telephone in USA: CHEMTREC 800-424-9300. In Canada: CANUTEC 613-996-6666 or *666 (cellular).

TION
This material is classified hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).
Serious eye damage / eye irritation - Category 2A
ING PRECAUTIONARY STATEMENTS
Warning
H319 - Causes serious eye irritation.
P280 - Wear eye or face protection P264 - Wash hands thoroughly after handling.
P350 + P351 + P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + 313 - If eye irritation persists: Get medical attention.
Store locked up.
Not applicable.
ASSIFIED (HNOC)
None known.
None known.

Chemical Name Polyurethane Resin B-side CAS NUMBER / OTHER IDENTIFIES CAS Number Not applicable. Product Code Not available. INGREDIENTS CAS # % 1,1,1,3,3-Pentafluoropropane 460-73-1 5 - 10 Tris (2-chloro-1-methylethyl) Phosphate 13674-84-5 5 - 10 Triethyl Phosphate 78-40-0 1 - 5 Trans-dichloroethylene 156-60-5 1 - 5 Ethanediol 107-21-1 1 - 5 2,2-Oxibisethanol 111-46-6 1 - 5	Substance / Mixture	Mixture				
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	Ethanediol		107-21-1	1 - 5		
N.N.N.'N.'N.''-Heyamethyl-1.3.5-triazine-1.3.5(2H.4H.6H)-tripropagamine 15875-13-5 15	2,2-Oxibisethanol		111-46-6	1 - 5		
1 3	N,N,N',N',N"-Hexamethy	yl-1,3,5-triazine-1,3,5(2H,4H,6H)-tripropanamine	15875-13-5	1 - 5		
Any concentration shown as a range is to protect confidentiality or is due to batch variation.	Any concentration shown	as a range is to protect confidentiality or is due to bat	ch variation.	<u>.</u>		

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 MEASUR	NES CONTRACTOR OF THE PROPERTY
DESCRIPTION OF NECESSAL	RY 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 20 minutes. Get medical attention.
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. Maintain an open airway. Get medical attention if symptoms occur.
Skin Contact	Flush contaminated skin with plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.
MOST IMPORTANT SYMPTO	MS / EFFECTS, ACUTE AND DELAYED
POTENTIAL ACUTE HEALTH	EFFECTS
Eye Contact	Causes serious eye irritation.
Inhalation	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin Contact	No known significant effects or critical hazards.
Ingestion	Irritating to mouth, throat and stomach.
OVER-EXPOSURE SIGNS / S	YMPTOMS
Eye Contact	Adverse symptoms may include the following: pain or irritation, watering, redness.
Inhalation	No known significant effects or critical hazards.
Skin Contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
INDICATION OF IMMEDIATE	MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY
Notes to Physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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.
See toxicological information	(Section 11)

SECTION 5: FIRE FIGHTING MEASU	RES
Suitable Extinguishing Media	Use dry chemical, CO2, water spray (fog) or foam.
Unsuitable Extinguishing Media	None known.
Specific Hazards Arising from the Chemical	No specific fire or explosion hazard.
Hazardous Thermal Decomposition Products	Combustion products may include carbon monoxide, carbon dioxide, nitrogen oxides, halogenated compounds, traces of ammonia vapors, phosphoric oxides, aldehydes and ketones, low molecular weight organic products, noxious and toxic fumes.
Special Protective Actions for Fire Fighters	No special measures are required.
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	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					

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 & STORAGE						
PRECAUTIONS FOR SAFE HAND	PRECAUTIONS FOR SAFE HANDLING					
Storage Temperature	59 - 77°F (15 - 25°C)					
Storage Life	6 months					
Protective Measures	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. 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.					

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION			
CONTROL PARAMETERS - UNIT	TED STATES		
OCCUPATIONAL EXPOSURE LI	MITS		
Ingredient Name	Occupational Exposure Limit Values		
1,1,1,3,3-Pentafluoropropane	AIHA WEEL (United States, 10/2011) TWA: 300 ppm 8 hours		
Triethyl Phosphate	AIHA WEEL (United States, 10/2011) TWA: 7.45 mg/m³ 8 hours		
Trans-dichloroethylene	ACGIH TLV (United States, 4/2014) TWA: 200 ppm 8 hours TWA: 793 mg/m³ 8 hours		
Ethanediol ACGIH TLV (United States, 4/2014)	C: 100 mg/m³ Form: Aerosol OSHA PEL 1989 (United States, 3/1989) CEIL: 125 mg/m³ CEIL: 50 ppm		
2,2-Oxibisethanol	AIHA WEEL (United States, 5/2010) TWA: 10 mg/m³ 8 hours		

CONTROL PARAMETERS - CANADA

OCCUPATIONAL EXPOSURE LIMITS		TWA (8 HOURS)			STEL (15 MINS)			CEILING			
Ingredient Name	List Name	ppm	mg/m³	other	ppm	mg/m³	other	ppm	mg/m³	other	notes
	US ACGIH 4/2014	200	793	-	-	-	ı	=	-	ı	
Trans-dichloroethylene	AB 4/2009	200	793	-	-	-	-	-	-	-	
	BC 7/2013	200	-	-	-	-	-	-	-	-	
	ON 1/2013	200	793	-	-	-	-	-	-	-	
	QC 1/2014	200	793	-	-	-	-	-	-	-	
1,1,1,3,3- Pentafluoropropane	US AIHA 10/2011	300	-	-	-	-	-	=	=	-	

	US ACGIH 4/2014	-	-	-	_	-	-	_	100	_	(a)
A	AB 4/2009	-	-	-	-	-	-	_	100	-	(3) (a)
		-	-	-	-	-	-	-	100	-	(a)
Ethanediol	BC 7/2013	-	10	-	-	20	-	_	-	-	(b)
		-	-	-	-	-	-	50	-	-	(c)
	ON 1/2013	-	-	-	-	-	-	-	100	-	(a)
	QC 1/2014	-	-	-	50	127	-	-	-	-	(d)
2,2-Oxibisethanol	US AIHA 5/2010	-	10	-	-	-	-	-	-	-	
Triethyl Phosphate	US AIHA 10/2011	-	7.45	-	-	-	-	-	-	-	
	AB 4/2009	-	10	-	-	-	-	-	-	-	(3) (e)
	BC 7/2013	-	10	-	-	-	-	-	-	-	(e)
Glycerol	BC 7/2013	-	3	-	-	-	-	-	-	-	(f)
	ON 1/2013	-	10	-	-	-	-	-	-	-	(g)
	QC 1/2014	-	10	-	-	-	-	_	-	-	(e)
(3) Skin sensitization. Form	: (a) Aerosol. (b) Par	iculate. (c) Vapor.	(d) Vapor	and Mist.	(e) Mist. (f) Respira	ble Mist. ((g) Inhalab	le Fractic	n.
Appropriate Engineering Controls	Good general vent	ilation sh	ould be su	fficient to	control w	orker exp	osure to a	airborne c	ontaminar	nts.	
Environmental Exposure Controls		nissions from ventilation or work process equipment should be checked to ensure they comply with the quirements of environmental protection legislation.									
INDIVIDUAL PROTECTION	MEASURES										
Hygiene Measures	using the lava potentially co	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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.									
Eye/Face Protection	is necessary t	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: chemical splash goggles.									
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.									
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	assessment in	Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.									

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES				
Physical State	Liquid			
Color	Blue			
Odor	Faint ether odor			
Odor Threshold	Not available			
рН	Not available			
Melting Point	Not available			
Boiling Point	Not available			
Flash Point	Closed cup: > 200°F (93°C) (Pensky-Martens)			
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 @ 77°F (25°C)	Summer formula - 1.17 - 1.21 Winter formula - 1.20 - 1.22			

Solubility	derately soluble in water			
Partition Coefficient: N-Octanol/Water	Not available			
Auto-Ignition Temperature	Not available			
Decomposition Temperature	Not available			
Viscosity @ 77°F (25°C)	Summer formula - 250 - 350 cps Winter formula - 200 - 300 cps			
Volatility	Not available			

SECTION 10: STABILITY & 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	Strong oxidizing materials, strong acids and alkali or alkaline earth metals (aluminum, zinc, beryllium and copper). Avoid unintended contact with isocyanates.				
Hazardous Decomposition Products	Decomposition products may include carbon monoxide, carbon dioxide, nitrogen oxides, halogenated compounds, traces of ammonia vapors, phosphoric oxides, aldehydes and ketones, low molecular weight organic products, noxious and toxic fumes.				

ACUTE TOXICITY						
Product / Ingredient Name	Endpoint	Species	Result	Result		
11177.0	LC50 Inhalation Vapor	Rat	> 1,110 mg/l	> 1,110 mg/l		
1,1,1,3,3-Pentafluoropropane	LD50 Dermal	Rabbit	> 2,000 mg	_		
	LC50 Inhalation Dusts & Mists	Rat	17.8 mg/l	17.8 mg/l		
Tris (2-chloro-1-methylethyl)	LC50 Inhalation Dusts & Mists	Rat	5 mg/l	5 mg/l		
Phosphate	LD50 Dermal	Rabbit	1,230 mg/k	1,230 mg/kg		
	LD50 Oral	Rat	1,500 mg/k	1,500 mg/kg		
Triethyl Phosphate	LD50 Oral	Rat	1,165 mg/kg	1,165 mg/kg		
	LC50 Inhalation Gas	Rat	24,100 ppm	24,100 ppm		
Trans-dichloroethylene	LD50 Dermal	Rabbit	> 5 g/kg	> 5 g/kg		
	LD50 Oral	Rat	1,235 mg/k	1,235 mg/kg		
Ethanediol	LD50 Oral	Rat	4,700 mg/l	4,700 mg/kg		
2,2-Oxibisethanol	LD50 Dermal	Rabbit	11,890 mg/l	11,890 mg/kg		
	LD50 Oral	Rat	12,000 mg/	⁄kg	-	
IRRITATION / CORROSION		,	•		•	
Product / Ingredient Name	Result	Species	Score	Exposure	Observation	
Triethyl Phosphate	Eyes - Moderate irritant Rabbit - 100 mg		100 mg	_		
The second of the second of	Eyes - Moderate irritant	Rabbit	- 10 mg		-	
Trans-dichloroethylene	Skin - Moderate irritant	Rabbit	- 24 h 500 mg		-	
Ethanediol	Eyes - Mild irritant	Rabbit	-	24 h 500 mg	_	
	Eyes - Mild irritant	Rabbit	-	1 h 100 mg	_	
	Eyes - Moderate irritant	Rabbit	- 6 h 1440 mg		-	
	Skin - Mild irritant	Rabbit	- 555 mg		_	
2,2-Oxibisethanol	Eyes - Mild irritant	Rabbit	-	50 mg	-	
	Skin - Mild irritant	Human	- 72 h 112 mg Intermittent		-	
	Skin - Mild irritant	Rabbit	-	500 mg	_	

CARCINOGENICITY								
CLASSIFICATION				1	T			
Ingredient	OSHA	IARC	NTP	ACGIH	EPA	NIOSH		
Ethanediol	-	-	-	A4	-	None		
2,2-Oxibisethanol			-		-	None		
SPECIFIC TARGET ORGAN TO	XICITY (SINGLE	EXPOSURE)						
Product / Ingredient Name	Category		Route of E	xposure	Target Orga	Target Organs		
1,1,1,3,3-Pentafluoropropane	Category 3		Not applic	able	Narcotic eff	ects		
SPECIFIC TARGET ORGAN TO	XICITY (REPEA	TED EXPOSURE))					
There is no data available.								
ASPIRATION HAZARD								
There is no data available.								
INFORMATION ON THE LIKEL	Y ROUTES OF E	XPOSURE						
Dermal contact. Eye contact. Ir	nhalation. Ingest	ion.						
POTENTIAL ACUTE HEALTH I	EFFECTS							
Eye Contact	Causes serior	us eye irritation.						
Inhalation	Exposure to exposure.	decomposition p	roducts may cause	e a health hazard. Se	rious effects may b	e delayed following		
Skin Contact	No known si	gnificant effects o	or critical hazards.					
Ingestion	Irritating to r	Irritating to mouth, throat and stomach.						
SYMPTOMS RELATED TO THE	PHYSICAL, CH	EMICAL AND TO	XICOLOGICAL CH	IARACTERISTICS				
Eye Contact	Adverse sym	Adverse symptoms may include the following: pain or irritation, watering, redness.						
Inhalation	No known si	No known significant effects or critical hazards.						
Skin Contact	No known si	No known significant effects or critical hazards.						
Ingestion	No known si	No known significant effects or critical hazards.						
DELAYED AND IMMEDIATE EI	FFECTS AND AL	SO CHRONIC EF	FECTS FROM SHO	ORT AND LONG TER	RM EXPOSURE			
SHORT TERM EXPOSURE								
Potential Immediate Effects	No known si	No known significant effects or critical hazards.						
Potential Delayed Effects	No known si	No known significant effects or critical hazards.						
LONG TERM EXPOSURE								
Potential Immediate Effects	No known si	No known significant effects or critical hazards.						
Potential Delayed Effects		No known significant effects or critical hazards.						
POTENTIAL CHRONIC HEALT								
General	No known si	No known significant effects or critical hazards.						
Carcinogenicity		No known significant effects or critical hazards.						
Mutagenicity		No known significant effects or critical hazards.						
Teratogenicity		No known significant effects or critical hazards.						
Developmental Effects		No known significant effects or critical hazards.						
Fertility Effects		No known significant effects or critical hazards.						
NUMERICAL MEASURES OF T								
Route	ATE Value	IOAIGII ESI	/A I L J					
Oral	5632.4 mg/k	ra .						
Dermal Dermal	68750 mg/k					_		
Detitial	00/30 Hig/K	00/30 Hig/kg						

392.9 mg/l

Inhalation (vapors)

SECTION 12: ECOLOGICAL INFOR	MATION					
TOXICITY						
Product / Ingredient Name	Result	Species		Exposure		
1,1,1,3,3-Pentafluoropropane	Acute EC50 > 97.9 mg/l		Daphnia		48 hours	
i,i,i,s,s-Peritaliuoroproparie	Acute EC50 > 81.8 mg/l		Fish		96 hours	
Triethyl Phosphate	Acute LC50 100 mg/l fresh water		Fish - Pimephales promelas (fledgling, hatchling, weanli	96 hours		
Trans-dichloroethylene	Acute LC50 220,000 Qg/l fresh v	vater	Daphnia - Daphnia magna	48 hours		
	Acute LC50 100,000 Qg/I marine	water	Crustaceans - Crangon crar	ngon - Adult	48 hours	
Ethanediol	Acute LC50 10,000,000 Qg/l fres	sh water	Daphnia - Daphnia magna		48 hours	
	Acute LC50 8,050,000 Qg/l fresh	water	Fish - Pimephales promelas		96 hours	
2,2-Oxibisethanol	Acute LC50 32,000 ppm fresh wa	ater	Fish - Gambusia affinis - Ac	lult	96 hours	
PERSISTENCE AND DEGRADA	BILITY					
Product / Ingredient Name	Aquatic Half-life	Photo	lysis	Biodegradab	Biodegradability	
Ethanediol	-	-		Readily		
BIOACCUMULATIVE POTENTIA	AL			-		
Product / Ingredient Name	LogPow	Potential				
Tris (2-chloro-1-methylethyl) Phosphate	2.68 0.8 - 2		2.8	Low		
Triethyl Phosphate	1.11	< 1.3		Low		
Trans-dichloroethylene	2.09	-		Low		
Ethanediol	-1.36	1.36		Low		
2,2-Oxibisethanol	-1.98	100		Low		
MOBILITY IN SOIL		•		•		
Soil/Water Partition Coefficient (Koc)	There is no data available.					
Other Adverse Effects	No known significant effects of critical hazards.					
SECTION 13: DISPOSAL CONSIDER	RATION					
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 dispersa of spilled material and runoff and contact with soil, waterways, drains and sewers.						
UNITED STATES - RCRA TOXIO	HAZARDOUS WASTE "U" LIST					
Product / Ingredient Name	CAS#	Status	S	Reference N	umber	
Trans-dichloroethylene	156-60-5 Listed U079					

SECTION 14: TRANSPORTATION INFORMATION					
DOT					
UN Number	Not regulated				
UN Proper Shipping Name	-				
Transport Hazard Class(es)	-				
Packing Group	-				
Environmental Hazard	No				
Additional Information	-				
TDG					
UN Number	Not regulated				
UN Proper Shipping Name	-				

Transport Hazard Class(es)	-
Packing Group	-
Environmental Hazard	No
Additional Information	-
IMDG	
UN Number	Not regulated
UN Proper Shipping Name	-
Transport Hazard Class(es)	-
Packing Group	-
Environmental Hazard	No
Additional Information	-
IATA	
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	Transport within user's premises: 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 Annex II of MARPOL 73/78 and the IBC Code	Not available

SECTION 15: REGULATORY INFOR	MATION				
UNITED STATES					
U.S. Federal Regulations	TSCA 8(a) PAIR: 2,2-Dimethylpropan-1-ol, tribromo derivative; Triethyl phosphate; Octamethylcyclotetrasiloxane. TSCA 8(c) calls for record of SAR: Triethyl phosphate. United States inventory (TSCA 8b): All components are listed or exempted. Clean Water Act (CWA) 307: Trans-dichloroethylene.				
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	No products were found				
SARA 304 RQ	Not applicable				
SARA 311/312					
CLASSIFICATION					
Immediate (acute) health hazard					

COMPOSITION / INFORMATION	ON INGR	EDIENTS	,							
Product / Ingredient Name	%		Fire Hazard	Sudden Release of Pressure		Reactive	Immediate (acute) Health Hazard		Delayed (chronic) Health Hazard	
1,1,1,3,3-Pentafluoropropane	5 - 10		No	Yes		No	Ye	S	No	
Tris (2-chloro-1-methylethyl) Phosphate	5 - 10		No	No		No	Yes		No	
Triethyl Phosphate	1 - 5		No	No		No	Yes		No	
Trans-dichloroethylene	1 - 5		Yes	No		No	Yes		No	
Ethanediol	1 - 5		No	No		No	Yes		No	
2,2-Oxibisethanol	1 - 5		No	No		No	Yes		No	
N,N,N',N',N",N"-Hexamethyl- 1,3,5-triazine-1,3,5(2H,4H,6H)- tripropanamine	1 - 5		No	No		No	Yes		No	
SARA 313										
		Produc	t Name		CAS#			%		
Form R - Reporting Requiremen	nts	Ethane	diol		107-21-1		1 - 5		- 5	
Supplier Notification		Ethane	diol		107-21-1		1 - 5			
SARA 313 notifications must not redistribution of the notice attac	be detach	ed from	the SDS and any o	copying tly redis	and redistri	bution of the SDS s	shall	include copyir	ng and	
STATE REGULATIONS										
Massachusetts	The follo	The following components are listed: Ethanediol; Trans-dichloroethylene; Glycerol.								
New York	The follo	The following components are listed: Ethanediol; Trans-dichloroethylene.								
New Jersey	The follo	The following components are listed: Ethanediol; Glycerol.								
Pennsylvania	The follo	The following components are listed: Ethanediol; 2,2' -Oxybisethanol; Trans-dichloroethylene.								
California Prop. 65	Glycerol.	Glycerol.								
CANADA										
CANADIAN LISTS										
Canadian NPRI	The follo	The following components are listed: Ethanediol; 1,1,1,3,3-Pentafluorobutane;								
1,1,1,3,3-Pentafluoropropane.										
CEPA Toxic Substances	The follo	The following components are listed: 1,1,1,3,3-Pentafluorobutane; 1,1,1,3,3-Pentafluoropropane.								
INTERNATIONAL LISTS / NATIO	ONAL INVE	NTORY								
Australia	Not dete	Not determined								
China	Not dete	Not determined.								
Europe	Not determined.									
Japan	Not determined.									
Malaysia	Not determined.									
New Zealand	Not determined.									
Philippines	Not determined.									
Republic of Korea	Not determined.									
Taiwan	Not determined.									

SECTION 16: OTHER INFORMATION					
Prepared By	Demilec Inc Technical Department				
Preparation Date (Y/M/D)	2015-10-8				
Current Issue Date (Y/M/D)	2017-5-25				

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.