

MATERIAL SAFETY DATA SHEET

1	PRODUCT FROTH-PAK 12.0 (A Component)																
2	COMPOSITION <table border="1" data-bbox="203 420 1299 567"> <thead> <tr> <th><u>CHEMICAL</u></th> <th><u>CAS#</u></th> <th><u>CONCENTRATION</u></th> <th><u>REGULATED</u></th> </tr> </thead> <tbody> <tr> <td>4,4-Diphenylmethane-diisocyanate (MDI)</td> <td>101-68-8</td> <td>40-70%</td> <td>Yes</td> </tr> <tr> <td>Polymeric MDI</td> <td>9016-87-9</td> <td>40-70%</td> <td>Yes</td> </tr> <tr> <td>Chlorodifluoromethane</td> <td>75-45-6</td> <td>7-13%</td> <td>Yes</td> </tr> </tbody> </table> <p>(1-see regulatory section for more information) (2-different raw material sources)</p> Appearance: Dark brown, frothy liquid with a mild odor.	<u>CHEMICAL</u>	<u>CAS#</u>	<u>CONCENTRATION</u>	<u>REGULATED</u>	4,4-Diphenylmethane-diisocyanate (MDI)	101-68-8	40-70%	Yes	Polymeric MDI	9016-87-9	40-70%	Yes	Chlorodifluoromethane	75-45-6	7-13%	Yes
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3	HAZARDS IDENTIFICATION <table border="1" data-bbox="203 819 511 882"> <tr> <td> HMIS: H F R PPE 2 1 0 </td> </tr> </table> <p>CAUTION! Contents under pressure. Irritancy of Product: Irritating to eyes, skin and respiratory tract. Sensitizing Properties: May cause sensitization by skin contact and inhalation. Exposure to individuals with asthma, eczema and or allergies may aggravate existing conditions. Symptoms may include: coughing, wheezing and shortness of breath. Routes of Entry: Eye and skin contact, inhalation, ingestion.</p>	HMIS: H F R PPE 2 1 0															
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4	FIRST AID MEASURES EYE flush with clean, low pressure water for 15 minutes while holding eyelids open. SKIN remove contaminated clothing; wash skin with soap and water. INHALATION remove to fresh air. INGESTION in case of excessive ingestion, give large amount of liquids. Do not induce vomiting.																
5	FIRE-FIGHTING MEASURES Flash Point: >390°F (>199°C) (estimated) Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Special Protective Equipment: Self Contained Breathing Apparatus Hazardous Decomposition Products: During combustion, Carbon Monoxide and Carbon Dioxide, Nitrogen Oxides, Ammonia and trace amounts of Hydrogen Cyanide are given off.																
6	ACCIDENTAL RELEASE MEASURES Provide adequate ventilation. Wear suitable personal protective clothing and equipment. Contain spill and collect using suitable absorbent material such as sawdust or vermiculite. Shovel into waste container adding decontaminate solution. (90% water, 7% ammonia and 3% detergent) Leave uncovered for 24 hours prior to disposal.																
7	HANDLING AND STORAGE CAUTION! Contents under pressure. Avoid open flames. Storage temperature: <120°F (<49°C) Do not puncture or incinerate.																
	Prepared by: M. Herosy File Name: CON-111A Reference No. FROTH-PAK 12.0 (A Component) Date of Issue: 12/97																

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1	PRODUCT FROTH-PAK 12.0 (B Component)																		
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<u>CHEMICAL</u>	<u>CAS#</u>	<u>CONCENTRATION</u>	<u>REGULATED</u>																
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3	<p>HAZARDS IDENTIFICATION</p> <p>CAUTION! Contents under pressure. Eye and skin irritant. Irritating to mucous membranes</p>	<p>HMIS: H F R PPE 1 1 0</p>																	
4	<p>FIRST AID MEASURES</p> <p>EYE flush with clean, low pressure water for 15 minutes while holding eyelids open.</p> <p>SKIN remove contaminated clothing; wash skin with soap and water.</p> <p>INHALATION remove to fresh air.</p> <p>INGESTION in case of excessive ingestion, give large amount of liquids. Do not induce vomiting. In all cases, seek additional medical attention.</p>																		
5	<p>FIRE-FIGHTING MEASURES</p> <p>Flash Point: >200°F (>93.3°C) (estimated) Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Special Protective Equipment: Self Contained Breathing Apparatus Hazardous Decomposition Products: During combustion, Carbon Dioxide and Carbon Monoxide, Nitrogen Oxides, Ammonia and trace amounts of Hydrogen Cyanide are given off.</p>																		
6	<p>ACCIDENTAL RELEASE MEASURES</p> <p>Provide adequate ventilation. Wear suitable personal protective clothing and equipment. Contain spill and collect using a suitable absorbent material such as sawdust or vermiculite.</p>																		
7	<p>HANDLING AND STORAGE</p> <p>CAUTION! Contents under pressure. Avoid open flames. Do not puncture or incinerate. Storage temperature: 75°F (26°C)</p>																		
8	<p>EXPOSURE CONTROLS/PERSONAL PROTECTION</p> <p>EYE wear safety goggles. SKIN wear protective clothing. RESPIRATORY use only in well-ventilated areas. With insufficient ventilation, wear suitable respiratory protection.</p>																		
<p>Prepared by: M. Herosy File Name: CON-111B</p>		<p>Reference No. FROTH-PAK 12.0 (B Component) Date of Issue: 5/97 (pg. 1 of 2)</p>																	

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9	PHYSICAL AND CHEMICAL PROPERTIES		Vapor Pres. (21°C/70°F): 2500mmHg Specific Gravity: 1.2 VOC Content (lb/gal): 0
10	STABILITY AND REACTIVITY		Stable under normal handling and use.
11	TOXICOLOGICAL INFORMATION		No toxicological testing has been done on this mixture.
12	ECOLOGICAL INFORMATION		Unknown
13	DISPOSAL INFORMATION		Do not puncture or incinerate. Relieve all pressure prior to disposal. Empty cylinders, once relieved of all pressure, can be disposed as non-hazardous waste. Dispose of leftover chemical by following instructions under "Accidental Release Measures".
14	TRANSPORTATION INFORMATION		Froth-Pak 12.0 (except Canada) - Consumer Commodity ORM-D IMDG: Aerosol, Class 9
15	REGULATORY INFORMATION		SHORT TERM(10 mins), mg/m ₃
	<u>EXPOSURE LIMITS</u>	<u>TWA (8 hour), mg/m₃</u>	
	Chlorodifluoromethane	3500 (1000ppm)	
	<u>REGULATED CHEMICAL</u>	<u>APPLICABLE REGULATIONS</u>	
	Chlorodifluoromethane	SARA 311/312/313, Canada, MA, NJ, PA	
16	OTHER INFORMATION		N/A
	Prepared by: M. Herosy File Name: CON-111B	Reference No. FROTH-PAK 12.0 (B Component) Date of Issue: 5/97	(pg. 2 of 2)

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8	EXPOSURE CONTROLS/PERSONAL PROTECTION		<p>EYE wear safety goggles. SKIN wear protective clothing. RESPIRATORY use only in well-ventilated areas. With insufficient ventilation, or in situations where the potential exists for exceeding the TLV, wear Self Contained Breathing Apparatus.</p>									
9	PHYSICAL AND CHEMICAL PROPERTIES		<p>Vapor Pres. (21°C/70°F): 2700mmHg Specific Gravity: 1.3 VOC Content (lb/gal): 0</p>									
10	STABILITY AND REACTIVITY		<p>Reacts with water. Avoid alkalies, acids, alcohol and ammonia. Reaction may be violent at elevated temperatures.</p>									
11	TOXICOLOGICAL INFORMATION		<p>Concentrations of components (Sec. 2) must be considered to determine effects of this mixture. MDI: LD₅₀ 15gm/kg (rat); ingestion</p> <p>CAUTION! Contents under pressure. Irritancy of Product: Irritating to eyes, skin and respiratory tract. Sensitizing Properties: May cause sensitization by skin contact and inhalation. (Acute and Chronic) Exposure to individuals with asthma, eczema and or allergies may aggravate existing conditions. Symptoms may include: coughing, wheezing and shortness of breath. Routes of Entry: Eye and skin contact, inhalation, ingestion.</p>									
12	ECOLOGICAL INFORMATION		Unknown									
13	DISPOSAL INFORMATION		<p>Do not puncture or incinerate. Relieve all pressure prior to disposal. Empty cylinders, once relieved of all pressure, can be disposed as non-hazardous waste. Dispose of leftover chemical by following instructions under "Accidental Release Measures".</p>									
14	TRANSPORTATION INFORMATION		<p>Froth-Pak 12.0 (except Canada) - Consumer Commodity ORM-D IMDG: Aerosol, Class 9</p>									
15	REGULATORY INFORMATION		<table border="0"> <thead> <tr> <th data-bbox="207 1463 380 1484"><u>EXPOSURE LIMITS</u></th> <th data-bbox="513 1463 740 1484"><u>TWA (8 hour), mg/m₃</u></th> <th data-bbox="821 1463 1135 1484"><u>SHORT TERM(10 mins), mg/m₃</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="207 1495 444 1547">4,4-Diphenylmethane-diisocyanate (MDI)</td> <td data-bbox="513 1495 691 1516">0.05 (0.005ppm)</td> <td data-bbox="821 1495 1024 1516">.2 (0.02ppm) ceiling</td> </tr> <tr> <td data-bbox="207 1558 431 1579">Chlorodifluoromethane</td> <td data-bbox="513 1558 691 1579">3500 (1000ppm)</td> <td data-bbox="821 1558 862 1579">N/A</td> </tr> </tbody> </table>	<u>EXPOSURE LIMITS</u>	<u>TWA (8 hour), mg/m₃</u>	<u>SHORT TERM(10 mins), mg/m₃</u>	4,4-Diphenylmethane-diisocyanate (MDI)	0.05 (0.005ppm)	.2 (0.02ppm) ceiling	Chlorodifluoromethane	3500 (1000ppm)	N/A
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	<p><u>REGULATED CHEMICAL</u> 4,4-Diphenylmethane-diisocyanate (MDI) Chlorodifluoromethane PMDI</p>	<p><u>APPLICABLE REGULATIONS</u> SARA 311/312/313, CAA 1990 Toxic air Pollutant SARA 311/312/313, Canada, MA, NJ, PA SARA 313</p>										
16	OTHER INFORMATION		N/A									
<p>Prepared by: M. Herosy File Name: CON-111A</p>		<p>Reference No. FROTH-PAK 12.0 (A Component) Date of Issue: 12/97 (pg. 2 of 2)</p>										