1	PRODUCT	ROOF PAK (A Component)			
		1.0 Density			
2	COMPOSITION				
	<u>CHEMICAL</u>	<u>CAS#</u>	CONCENTRATION	REGULATED_	
	4,4-Diphenylmethane-	101-68-8	40-70%	Yes	
	diisocyanate (MDI)				
	Polymeric MDI	9016-87-9	40-70%	Yes	
	Chlorodifluoromethane	75-45-6	7-13%	Yes	
	(1-see regulatory section for more informatic	on)			
	(2-different raw material sources)	.,			
	Appearance: Dark brown, fr	othy liquid with a mild odor			
3	HAZARDS IDENTIFICATION	ottiy iiqala witi a iima odor.			
	IDENTIFICATION		CAUTION! Contents under press	sure	
		Irritancy of Product	: Irritating to eyes, skin and respi		
	HMIS: H F R PPE		: May cause sensitization by skin		
	2 1 0	generaling respective	Exposure to individuals with astl		
			allergies may aggravate existing		
			may include: coughing, wheezing	= -	
		Routes of Entry	Eye and skin contact, inhalation	•	
4	FIRST AID MEASURES	Redies of Littly	Ego and skin contact, imidiation	, ingostion.	
	EYE flush with clean, low pressure water for 15 minutes while—holding eyelids open.				
		ETE mash with clean, low pro-	source water for 15 minutes willie	notating cyclics open.	
		SKIN remove contaminated of	lothing; wash skin with soap and	water	
		Jan Temove contaminated c	othing, wash skiil with soap and	water.	
	INHALATION remove to fresh air.				
		INGESTION in case of excessive ingestion, give large amount of liquids. Do not			
		induce vomiting.	ve ingestion, give large unloant o	r liquius. Do not	
5	FIRE-FIGHTING MEASURES	madee vormang.			
	TIKE TIGHTING WEXSURES	Flash Point	·· >300°F (>100°C) (astimated)		
	Flash Point: >390°F (>199°C) (estimated) Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water				
			t: Self Contained Breathing Apparatus s: During combustion, Carbon Monoxide and		
	Haza	ardous Decomposition Products			
		·	Carbon Dioxide, Nitrogen Oxides		
			and trace amounts of Hydrogen		
			given off.	•	
6	ACCIDENTAL RELEASE MEAS	URES			
			Provide adequate ventilation.		
			Wear suitable personal protective	e clothing and equipment	_
			Contain spill and collect using su		.
			material such as sawdust or ver		و ا
			container adding decontaminate		~
			_		
			7% ammonia and 3% detergent	, Leave uncovered for	
71	HANDLING AND STORAGE		24 hours prior to disposal.		
7	HANDLING AND STORAGE		CALITIONI Contents des	curo	
			CAUTION! Contents under press	sure.	
			Avoid open flames.	1000)	
			Storage temperature: <120°F (	<49°C)	
			Do not puncture or incinerate.		
	Prepared by: M. Herosy		Reference No. ROOF PAK (A C	Component)	
L	File Name: CON-126A		Date of Issue: 12/97		(pg.1 of 2)

1	PRODUCT	ROOF PAK (B Component)				
	,2001	1.0 Density				
		-				
2	COMPOSITION					
	CHEMICAL	CAS#	CONCENTRATION	REGULATED_		
	Polyether Polyol Blend	Mixture_	60-100%	No		
	Chlorodifluoromethane	75-45-6	10-30%	Yes		
	(1-see regulatory section for more information	n)				
	(2-different raw material sources)					
	Appearance: Brown to light	yellow, frothy liquid with a mild	odor.			
3	HAZARDS IDENTIFICATION			HMIS: H F R PPE		
		CAUTION! Contents under pre	essure.	1 1 0		
	_	: Irritating to eye, skin and muc				
4	Routes of Entry FIRST AID MEASURES	: Eye and skin contact, inhalation	on, ingestion.			
	TIKST AID WILASUKES	EYE flush with clean, low pre	ssure water for 15 minutes while	holding eyelids open.		
				0 3 ,		
		SKIN remove contaminated clothing; wash skin with soap and water.				
		INHALATION remove to fresh	air.			
		NOTATION I				
		INGESTION in case of excessive ingestion, give large amount of liquids. Do not induce vomiting.				
		In all cases, seek additional medical attention.				
5	FIRE-FIGHTING MEASURES					
			: >200°F (>93.3°C) (estimated) Carbon Dioxide, Dry Chemical, Fo	nam Water		
			Self Contained Breathing Appara			
	Haza	ardous Decomposition Products:	During combustion, Carbon Diox			
		Carbon Monoxide, Nitrogen Oxides, Ammonia				
			and trace amounts of Hydrogen	Cyanide are given off.		
6	ACCIDENTAL RELEASE MEASI	JRES				
			Provide adequate ventilation.			
			Wear suitable personal protective			
			equipment. Contain spill and col suitable absorbent material such	_		
			or vermiculite.	i as sawuust		
7	HANDLING AND STORAGE		CAUTION! Contents under press	sure.		
			Avoid open flames.			
			Do not puncture or incinerate.			
8	EXPOSURE CONTROLS/PERSO	NIAL PROTECTION	Storage temperature: 75°F (26°	-C)		
	LAI OJONE GONTROLS/FERSC	TWAL TROTLOTION	EYE wear safety goggles.			
			SKIN wear protective clothing.			
			RESPIRATORY use only in well-ve	entilated areas.		
			With insufficient ventilation, wea	ar suitable respiratory		
			protection.			
	Prepared by: M. Herosy		Reference No. Roof Pak (B Com	ponent)	(ng 1 -f 0)	
	File Name: CON-126B		Date of Issue: 5/97		(pg. 1 of 2)	

9	PHYSICAL AND CHEMICAL PRO	PERTIES	Marca Burn (0400 (700E) - 0500 - 11	
			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	I		
			No toxicological testing has been done on this mixture.	
			CAUTION! Contents under pressure.	
		Irritancy of Product:	Irritating to eye, skin and mucous membranes.	
		(Acute)		
		Routes of Entry:	Eye and skin contact, inhalation, ingestion.	
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	
			,	
1.4	TRANSPORTATION INFORMATION	ON	under "Accidental Release Measure".	
14	TRANSFORTATION INFORMATI		NOS (Nitrogen Chlorodifluoremethane) 2.2 LIN10E4	
		compressed dases,	N.O.S. (Nitrogen, Chlorodifluoromethane), 2.2 UN1956	
1E	REGULATORY INFORMATION			
15		TMA (9 hour) mg/m	SHORT TERM(10 mins) mg/m	
	EXPOSURE LIMITS	TWA (8 hour), mg/m_	SHORT TERM(10 mins), mg/m_	
	Chlorodifluoromethane	3500 (1000ppm)		
	REGULATED CHEMICAL	APPLICABLE REGULATIONS		
	Chlorodifluoromethane	SARA 311/312/313 Canada,	Ma, NJ, PA	
16	OTHER INFORMATION			
			N/A	
<u> </u>	Prepared by: M. Herosy		Reference No. Roof Pak (B Component)	
	File Name: CON-126B			(pg. 2 of 2)
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8	EXPOSURE CONTROLS/PERSO	NAL PROTECTION		
0	LAFOSURE CONTROLS/PERSO	NAL FROTECTION	EYE wear safety goggles.	
			5 5 55	
			SKIN wear protective clothing.	
			RESPIRATORY use only in well-ventilated areas.	
			With insufficient ventilation, or in situations were the	
			potential exists for exceeding the TLV, wear Self-Contain	ned
			Breathing Apparatus.	
9	PHYSICAL AND CHEMICAL PRO	OPERTIES		
			Vapor Pres. (21°C/70°F): 2700mmHg	
			Specific Gravity: 1.3	
			VOC Content (lb/gal): 0	
10	STABILITY AND REACTIVITY		, <b>3</b> /	
			Reacts with water. Avoid alkalies, acids, alcohol and	
			ammonia. Reaction may be violent at elevated	
			temperatures.	
11	TOXICOLOGICAL INFORMATIO	N	temperatures.	
- ' '	TOXICOLOGICAL IN ORMATIO	IV	Concentration of components (Sec. 2) must be	
			·	
			considered to determine effects of this mixture.	
			MDI: LDd500d 15gm/kg (rat); ingestion	
			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	h.
		Routes of Entry.	Eye and skin contact, inhalation, ingestion.	
12	ECOLOGICAL INFORMATION	nodies of Entry.	Lyo and skin contact, imidiation, ingestion.	
12	EGGEGGGAE HAI GRAWITATION		Unknown	
			OTIKTOWIT	
13	DISPOSAL INFORMATION			
13	DISTOSAL IN ORMATION		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 INFORMAT	TON		
		Compressed gases,	N.O.S. (Nitrogen, Chlorodifluoromethane), 2.2 UN1956	
15	REGULATORY INFORMATION			
	EXPOSURE LIMITS	TWA (8 hour), mg/m_	SHORT TERM(10 mins), mg/m_	
	4,4-Diphenylmethane-	0.05 (0.005ppm)	.2 (0.02ppm) ceiling	
	diisocyanate (MDI)	5.55 (5.555ppiii)	- (o.o-ppin) ooming	
	Chlorodifluoromethane	2500 (1000nnm)	N/A	
	onioi odindoi ome mane	3500 (1000ppm)	IN/ CI	
	DECIII ATED CHEMICAL	ADDITIONE F DECLE ATIONS		
	REGULATED CHEMICAL APPLICABLE REGULATIONS  6APA 211 (212 (212 6AA 106		OO Tarria air Dallatarrt	
	4,4-Diphenylmethane- SARA 311/312/313, CAA 199		90 Toxic air Poliutant	
	diisocyanate (MDI) Chlorodifluoromethane SARA 311/312/313 Canda, M		MA, NJ, PA	
	PMDI	SARA 313		
16	OTHER INFORMATION			
			N/A	
	Prepared by: M. Herosy		Reference No. ROOF PAK (A Component)	
	File Name: CON-126A		Date of Issue: 12/97	(pg. 2 of 2)
				/