



The Dow Chemical Company
2050 North Broadway
Joliet, Illinois 60435

Telephone / Fax
For Emergency: Chemtrec
Call Collect

(815) 774-6500 / 774-6546
(800) 424-9300 (USA)
(703) 527-3887 (Non-USA)

MATERIAL SAFETY DATA SHEET

1	PRODUCT	FROTH-PAK 600 (A Component) B2, NCFC, 1.75 Density			
2	COMPOSITION				
	<u>CHEMICAL</u>	<u>CAS#</u>	<u>CONCENTRATION</u>	<u>REGULATED¹</u>	
	4,4-Diphenylmethane-diisocyanate (MDI)	101-68-8	60-100%	Yes	
	Polymeric MDI	9016-87-9	40-70%	Yes	
	Tetrafluoroethane	811-97-2	7-13%	No	
	(1-see regulatory section for more information) (2-different raw material sources) Appearance: Dark brown, frothy liquid with a mild odor.				
3	HAZARDS IDENTIFICATION				
		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.		
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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 absorbant 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: A. Jarocha File Name: CON-104A	Reference No: CON-104A (11/99) Date of Issue: 12/00		(pg. 1 of 2)	

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8	EXPOSURE CONTROLS/PERSONAL PROTECTION	
	EYE SKIN RESPIRATORY	wear safety goggles. wear protective clothing. 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.
9	PHYSICAL AND CHEMICAL PROPERTIES	
		Vapor Pres. (21°C/70°F): 2700mmHg Specific Gravity: 1.3 VOC Content (lb/gal): 0
10	STABILITY AND REACTIVITY	
		Reacts with water. Avoid alkalies, acids, alcohol and ammonia. Reaction may be violent at elevated temperatures.
11	TOXICOLOGICAL INFORMATION	
		Concentrations of components (Sec. 2) must be considered to determine effects of this mixture. MDI: LD50 15gm/kg (rat); ingestion
	CAUTION! Irritancy of Product: Sensitizing Properties: (Acute and Chronic)	Contents under pressure. Irritating to eyes, skin and respiratory tract. 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.
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	
		Compressed gases, N.O.S., (Nitrogen, Tetrafluoroethane) 2.2 UN1956
15	REGULATORY INFORMATION	
	<u>EXPOSURE LIMITS</u> 4,4-Diphenylmethane-diisocyanate (MDI)	<u>TWA (8 hour), mg/m³</u> 0.05 (0.005ppm) <u>SHORT TERM(10 mins), mg/m³</u> .2 (0.02ppm) ceiling
	<u>REGULATED CHEMICAL</u> 4,4-Diphenylmethane-diisocyanate (MDI) PMDI	<u>APPLICABLE REGULATIONS</u> SARA 311/312/313, CAA 1990 Toxic air Pollutant SARA 313
16	OTHER INFORMATION	
		N/A
	Prepared by: A. Jarocho File Name: CON-104A	Reference No: CON-104A (11/99) Date of Issue: 12/00