

Material Safety Data Sheet - MSDS

Handi-Foam

Section 1. Chemical Product and Company Identification

Common Name	
Synonym	
Trade name	

· Handi-Foam

Synonym	: Not available.
Trade name	: Not available.
Manufactured for	: L.H. Dottie Company
	6131 S. Garfield Avenue
	Commerce, California 90040
	Tel: (323) 725-1000

Validation Date In Case of Emergency : (714) 739-1408

Code

: 2004-10-24.

: HF340

Section 2. Composition, Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits
Polymethylenepolyphenyl isocyanate Chlorodifluoromethane	9016-87-9 75-45-6	15-30 15-30	Not available. ACGIH TLV (United States, 2003). : TWA: 3540 mg/m ³ 8 hour(s). Form: All forms TWA: 1000 ppm 8 hour(s). Form: All forms NIOSH REL (United States, 2001). STEL: 4375 mg/m ³ 15 minute(s). Form: All forms STEL: 1250 ppm 15 minute(s). Form: All forms TWA: 3500 mg/m ³ 10 hour(s). Form: All forms TWA: 1000 ppm 10 hour(s). Form: All forms OSHA PEL 1989 (United States, 1989). TWA: 3500 mg/m ³ 8 hour(s). Form: All forms TWA: 1000 ppm 8 hour(s). Form: All forms
4,4'-Methylenediphenyl diisocyanate	101-68-8	15-30	ACGIH TLV (United States, 2003). TWA: 0,05 mg/m ³ 8 hour(s). Form: All forms TWA: 0,01 ppm 8 hour(s). Form: All forms NIOSH REL (United States, 2001). CEIL: 0,2 mg/m ³ 10 minute(s). Form: All forms CEIL: 0,02 ppm 10 minute(s). Form: All forms TWA: 0,05 mg/m ³ 10 hour(s). Form: All forms TWA: 0,01 ppm 10 hour(s). Form: All forms OSHA PEL (United States, 1993). CEIL: 0,2 mg/m ³ Form: All forms CEIL: 0,02 ppm Form: All forms

This material is classified as hazardous under OSHA regulations.

See Section 8 for Exposure Limits. See Section 11 for Toxicological Data.

Section 3. Hazards Identification **Physical State and** : Liquid. (Viscous liquid.) Appearance **Emergency Overview** : WARNING! MAY CAUSE RESPIRATORY TRACT IRRITATION. MAY CAUSE ALLERGIC RESPIRATORY REACTION. Do not breathe vapor or mist. Keep container closed. Use only with adequate ventilation. **Routes of Entry** : Inhalation. **Potential Acute Health Effects** Eyes : Non-irritating to the eyes. Skin : Non-irritant for skin. Non-sensitizer for skin. Inhalation : Hazardous in case of inhalation (lung irritant, lung sensitizer). Ingestion : Not available.

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Potential Chronic Health Effects	 CARCINOGENIC EFFECTS: Classified 3 (Not classifiable for human.) by IARC [Polymethylenepolyphenyl isocyanate]. Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [Chlorodifluoromethane]. Classified 3 (Not classifiable for human.) by IARC [4,4'-Methylenediphenyl diisocyanate]. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.
Medical Conditions Aggravated by Overexposure:	: Repeated or prolonged exposure is not known to aggravate medical condition.
Over-exposure signs/symptoms See Section 11 for Toxicolog	: Not available. gical Data.

Section 4. First Aid Measures

Continue E Ein	- Fighting Massures
Notes to Physician	: No specific antidote. Medical staff must contact Poison Information Center.
Ingestion	: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.
Inhalation	: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Skin Contact	: In case of contact, immediately flush skin with plenty of water. Get medical attention.
Eye Contact	: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Section 5. Fire Fighting Measures

Flammability of the Product	:	May be combustible at high temperature.
Auto-ignition Temperature	:	Not available.
Flash Points	:	Closed cup: >427°C (800.6°F). (Pensky-Martens.)
Flammable Limits	:	Not available.
Products of Combustion	:	These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂), halogenated compounds, hydrogen chloride, hydrogen fluoride.
Fire Hazards in Presence of Various Substances	:	Non-flammable in presence of heat.
Explosion Hazards in Presence of Various Substances	:	Risks of explosion of the product in presence of mechanical impact: Not applicable. Risks of explosion of the product in presence of static discharge: Not applicable.
Fire Fighting Media and Instructions	:	SMALL FIRE: Use dry chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Protective Clothing (Fire)	:	Be sure to use an approved/certified respirator or equivalent.
Special Remarks on Fire Hazards	:	Not available.

Section 6. Accidental Release Measures

Large Spill and Leak : Absorb with an inert material and put the spilled material in an appropriate waste disposal.	Small Spill and Leak	: Absorb with an inert material and put the spilled material in an appropriate waste disposal.
	Large Spill and Leak	: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Section 7. Handling and Storage

Handling Storage Do not breathe vapor or mist. Keep container closed. Use only with adequate ventilation.
 Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 49°C (120.2°F).

Section 8. Expos	SI	ire Controls, Personal Protection	
Engineering Controls	 Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of value below their respective occupational exposure limits. Ensure that eyewash stations and safety sho are proximal to the work-station location. 		
Personal Protection			
Eyes	:	Safety glasses.	
Body	:	Lab coat.	
Respiratory	:	Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.	
Hands	:	Gloves.	
Feet	:	Not applicable.	
Protective Clothing (Pictograms)	:		
Personal Protection in Case of a Large Spill Exposure Limits	:	Splash goggles. Full suit. Vapor respirator. Boots. Gloves.	
Product Name		Exposure Limits	
Chlorodifluoromethane		ACGIH TLV (United States, 2003). :	
		TWA: 3540 mg/m ³ 8 hour(s). Form: All forms	
		TWA: 1000 ppm 8 hour(s). Form: All forms	
		NIOSH REL (United States, 2001).	
		STEL: 4375 mg/m³ 15 minute(s). Form: All forms STEL: 1250 ppm 15 minute(s). Form: All forms	
		TWA: 3500 mg/m ³ 10 hour(s). Form: All forms	
		TWA: 3500 fig/in 10 hour(s). Form: All forms	
		OSHA PEL 1989 (United States, 1989).	
		TWA: 3500 mg/m ³ 8 hour(s). Form: All forms	
		TWA: 1000 ppm 8 hour(s). Form: All forms	
4,4'-Methylenediphenyl diiso	су		
		TWA: 0,05 mg/m ³ 8 hour(s). Form: All forms	
		TWA: 0,01 ppm 8 hour(s). Form: All forms	
		NIOSH REL (United States, 2001).	
		CEIL: 0,2 mg/m ³ 10 minute(s). Form: All forms	
		CEIL: 0,02 ppm 10 minute(s). Form: All forms	
		TWA: 0,05 mg/m ³ 10 hour(s). Form: All forms	
		TWA: 0,01 ppm 10 hour(s). Form: All forms	
		OSHA PEL (United States, 1993).	
		CEIL: 0,2 mg/m ³ Form: All forms	

CEIL: 0,02 ppm Form: All forms

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	: Liquid. (Viscous liquid.)
Color	: Off-white to yellowish.
Odor Molecular Weight	: Odorless. : Not applicable.
Molecular Formula	: Not applicable.
pH (1% Soln/Water)	: Not applicable.
Boiling/Condensation Point	: >93.3°C (199.9°F)
Melting/Freezing Point Specific Gravity	: Not available. : 1.2 (Water = 1)
Vapor Pressure	: Not available.
Vapor Density	: The highest known value is 8.6 (Air = 1) (Polymethylenepolyphenyl isocyanate).
Volatility	: Not available.

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Odor Threshold	: Not available.
Evaporation Rate	: Not available.
VOC	: Not available.
Viscosity	: Not available.
LogKow	: Not available.
Solubility	: Insoluble in cold water, hot water.

Section 10. Stability and Reactivity

Stability and Reactivity	: The product is stable.
Conditions of Instability	: Not available.
Incompatibility with Various Substances	: Not considered to be reactive.
Hazardous Decomposition Products	: These products are halogenated compounds, hydrogen chloride, hydrogen fluoride.
Hazardous Polymerization	: Will not occur.

Section 11. Toxicological Information

Toxicity Data				
Ingredient Name	<u>Test</u>	<u>Result</u>	Route	Species
Polymethylenepolyphenyl isocyanate	LD50	>15000 mg/kg	Oral	Rat
	LD50	>9400 mg/kg	Dermal	Rabbit
4,4'-Methylenediphenyl diisocyanate	LD50	9200 mg/kg	Oral	Rat
	LD50	2200 mg/kg	Oral	Mouse
3 (Not c	thylenepolyphenyl is classifiable for hum	ocyanate]. Classified A4 (No	ot classifiable for hur	or human.) by IARC man or animal.) by ACGIH, fied 3 (Not classifiable for
		ion (lung irritant, lung sensiti nsitizer for skin. Non-irritatin	,	
Special Remarks on Toxicity : Not avai to Animals	lable.			
Special Remarks on Chronic : Not avai Effects on Humans	lable.			
Special Remarks on Other : Not avai Toxic Effects on Humans	lable.			

Section 12. Ecological Information

BOD and COD Biodegradable/OECD	Not available.Not available.
Mobility	: Not available.
Products of Degradation	: These products are carbon oxides (CO, CO ₂) and water, nitrogen oxides (NO, NO ₂), halogenated compounds.
Toxicity of the Products of Biodegradation	: The products of degradation are more toxic than the product itself.
Special Remarks on the Products of Biodegradation	: Not available.

Section 13. Disposal Considerations

Waste Information

: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Consult your local or regional authorities.

Section 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
United States (DOT)	UN1950	Aerosols, [non-flammable, (each not exceeding 1 L capacity)] (Chlorodifluoromethane)	2.2	-		-
IMDG Code	UN1950	Aerosols, [non-flammable, (each not exceeding 1 L capacity)] (Chlorodifluoromethane)	2.2	-		-
IATA-DGR Class	UN1950	Aerosols, [non-flammable, (each not exceeding 1 L capacity)] (Chlorodifluoromethane)	2.2	-		-

NAERG	: 126					
Section 15. Regulatory Information						
HCS Classification	: Compressed Gas Irritating material Sensitizing material					
U.S. Federal Regulations	 TSCA 8(b) inventory: All components listed. SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found. SARA 302/304/311/312 hazardous chemicals: Chlorodifluoromethane; 4,4'-Methylenediphenyl diisocyanate SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Chlorodifluoromethane: Sudden Release of Pressure, Delayed (Chronic) Health Hazard; 4,4'-Methylenediphenyl diisocyanate: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard Clean Water Act (CWA) 307: No products were found. Clean air act (CAA) 112 accidental release prevention: No products were found. Clean air act (CAA) 112 regulated flammable substances: No products were found. Clean air act (CAA) 112 regulated toxic substances: No products were found. 					
<u>SARA 313</u>						
Form R - Reporting Requirements	 Polymethylenepolyphenyl isocyanate Chlorodifluoromethane 4,4'-Methylenediphenyl diisocyanate 	15-30 15-30 15-30				
Supplier Notification	 Polymethylenepolyphenyl isocyanate Chlorodifluoromethane 4,4'-Methylenediphenyl diisocyanate 	15-30 15-30 15-30				
State Regulations	: Pennsylvania RTK: Chlorodifluoromethane: (generic envi diisocyanate: (environmental hazard, generic environmen Massachusetts RTK: Chlorodifluoromethane; 4,4'-Methyl New Jersey: Chlorodifluoromethane; 4,4'-Methylenediphe California prop. 65: No products were found.	ntal hazard) enediphenyl diisocyanate				

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Section 16. Other Information									
Label Requirements	: MAY CAUSE RESPIRATORY TRACT IRRITATION. MAY CAUSE ALLERGIC RESPIRATORY REACTION.								
Hazardous Material Information System (U.S.A.)	Health Fire Hazard Reactivity Personal Protection	2 1 1 C	National Fire Protection Association (U.S.A.)	Health 2	Fire Hazard Reactivity Specific Hazard				
References			HA MSDS Requirements 49CF . ANSI Z400.1, MSDS Standard						
Responsible Name Date of printing Date of issue Date of Previous Issue Version	: Kemika XXI Inc : 2004-10-28. : 2004-10-24. : No Previous Va		-7475						
Version	: 1								

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.