Material Safety Data Sheet

0914 Window & Door Low-Expanding Polyurethane Foam

MSDS No. 0122WDF

Emergency Phone No. 800-535-5053 - INFOTRAC

			800- 5	35-5053 - IN	NFOTRAC					
	SECTION 1 – PRODUCT NAME & MANUFACTURES	INFORM	ATION							
PRODUCT NAME	Window & Door Low-Expanding Polyurethane Foam – Aerosol Cans									
MANUFACTURER'S I TELEPHONE NUMBE		Red Devil, Inc.								
STREET ADDRESS	4175 Webb Street									
CITY / STATE / ZIP	CITY/STATE/ZIP Pryor, Oklahoma 74361									
SECTIO	ON 2 – COMPOSITION / HAZARDOUS INGREDIENTS	%	LD50	LC50	UNITS					
Methylenediphen	nyl diisocyanate isomers (Polymeric MDI) (9016-87-9)	< 30	NA	NA						
4,4' – methylened	diphenyl diisocyanate (MDI) (191-68-8)	< 30	NA	NA						
Dimethyl ether (1	15-10-6)	< 15	NA	NA						
Propane (74-98-6	5)	< 20	NA	NA						
Butane (106-97-8	3)	< 20	NA	NA						
Isobutane (75-28	-5	< 20	NA	NA						
Urethane Pre-pol	ymer Blend (CAS No. not available) (Non-Haz proprietary polyol blend)	< 50	NA	NA						
	gred. not considered hazardous under OSHA Haz. Com. Std. (29 CFR 1910.1200). /OC Content: ~ 183 g/L. CARB Compliance: Exempt. Prop 65 Ingred: No.									
	SECTION 3 – HAZARDS IDENTIFICAT	ION								
PRIMARY ROUTE(S) OF ENTRY	Skin Contact Skin Absorption Seye Contact	Skin Contact Skin Absorption Sepe Contact Inhalation Ingestion								
EMERGENCY OVERVIEW		ANGER! Extremely flammable aerosol. Harmful by inhalation, in contact w/ skin or when swallowed. Irritating to eyes skin. Prolonged exposure may result in chronic effects. May result in sensitization w/ skin contact.								
EFFECTS OF OVEREXPOSURE	Inhalation: Vapors may irritate mucus membranes w/ tightness in chest, coughing, wheeziness or allergic asthma-like sensitivity. Overexposure to gases may result in light headedness, headaches or lethargy. Skin Contact: May cause localized skin irritation, redness. Eye Contact: Causes eye irritation. For its adhesive feature, foam contact w/ eyes may result in physical damage due to adhesive properties. Ingestion: Harmful if swallowed.									
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	None known. ATED BY									
	SECTION 4 – FIRST AID MEASURES	S								
Use rag to remove excess foam. Remove contaminated clothing. Remove uncured foam from skin using a delicate solvent such as acetone or mineral spirits (avoid eye contact). Hardened foam may be removed by persistent washing w/ soap & water. If irritation develops, use a delicate cream. Seek medical attention. Wash clothing separately prior to reuse.										
EYE CONTACT	Flush w/ clean water for @ least 15 minutes. Remove contact lense	Flush w/ clean water for @ least 15 minutes. Remove contact lenses if easy to do. Seek medical attention.								
INHALATION	Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled material. Induce artificial respiration w/ aid of a pocket mask equipped w/ a one-way valve or other proper respiratory medical device. Seek medical attention.									
Rinse mouth. Do not induce vomiting unless advised by medical personnel & do not use mouth-to-mouth if victim ingested material. Induce artificial respiration w/ aid of a pocket mask equipped w/ a one-way valve or other proper respiratory medical device. If swallowed, seek medical attention & show MSDS or label.										

SECTION 5 – FIRE FIGHTING MEASURES						
FLAMMABLE Yes No Extremely flammable aerosol.						
EXTINGUISHING Large fires: Dry chemical, foam or water spray. Small fires:CO2, dry chemical or water spray.						
			UPPER EXPLOSIV	E LIMIT 11.0 Vol. %		
LOWER EXPLOSIVE LIMIT 1.5 Vol. % (% BY VOLUME)			AUTOIGNITION TEMPERTURE (°F	NE		
UNUSUAL FIRE & EXPLOSION HAZARDS In event of fire, cool tanks w/ water spray. Move containers from fire area if can be done w/o risk. Self-contained breathing apparatus & full protective clothing must be worn.						
Hardened foam is an organic matter & will burn in the presence of sufficient heat, oxygen & ignition source. FIREFIGHTING PROCEDURES Hardened foam is an organic matter & will burn in the presence of sufficient heat, oxygen & ignition source.						
SECTION 6 – ACCIDENTAL RELEASE MEASURES						
Eliminate ignition sources. Local authorities should be advised if significant spillage cannot be contained. Ensure adequate ventilation. Keep individuals away from & upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces prior to entering & keep out of low areas. Do not contaminate water.						
	_	SECTION 7	7 – HANI	DLING & ST	ΓORAGE	
HANDLING PROCE EQUIPMENT	EDURES & Keep	away from heat, spark, open	n flame & ot	ther ignition sou	irces. Protect containers from physical abuse.	
STORAGE REQUIR	Storage REQUIREMENTS Store in a cool, dry place. Ideal storage temperature is 40 to 78F. Storage above 104F will shorten shelf life. Protect from freezing. Protect from heat. Contents under pressure; do not puncture.				•	
SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION						
Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release. When workers are facing concentrations above the exposure limit they should use appropriate certified respirators. Engineering Measures: Ensure adequate ventilation, especially in confined areas. Ventilation rates should be matched to conditions.						
EYEWEAR						
CLOTHING / GLOVES	Impervious glo	pervious gloves & suitable work clothes; suitable protective clothing & protective gloves.				
HYGENIC PRACTICES	_	Exercise good personal hygiene, wash thoroughly after each use. When using product, do not eat, drink or smoke. Avoid contact w/ eyes & skin.				
SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES						
PHYSICAL STATE		- rapidly curing foam dispuseous propellant from aeros container.	CHSCu AP	OOR & PPEARANCE	Characteristic odor; pale yellow color	
SPECIFIC GRAVIT	Y	NE		APOR DENSITY IR=1)	NE	
EVAPORATION RA	TE	NA	ВС	OILING RANGE (°F)	NE	
рН		NE		DLUBILITY IN ATER	Insoluble; reacts w/ water.	
VAPOR PRESSURE Hg)	(MM	NE		/WT VOLATILE NV)	NE	
SECTION 10 – STABILITY AND REACTIVITY						
STABILITY Yes No Stable w/ storage & handling as directed. Stable in normal conditions.						
INCOMPATABILITY See No Incompatible w/ oxidizers, acids, bases, amines, water, aluminum, copper, alcohols & metal compounds.						
CONDITIONS TO AVOID						
	HAZARDOUS POLYMERIZATION/HAZARDOUS DECOMPOSITION PRODUCTS Following application, polymerization occurs. No hazardous decomposition products known.					

	SECTION 11 – TOXICOLOGICAL IN	FORM	ATION / CARCINOGENICITY				
ACGIH Not listed as a carcinogen.							
OSHA	Not listed as a carcinogen.						
IARC	Not listed as a carcinogen.	•					
NTP	Not listed as a carcinogen.						
DATA WITH POSSIB RELEVANCE TO HU							
	SECTION 12 – ECOLO	GICAL	INFORMATION				
AQUATIC TOXICITY	Ecotoxicity/Environmental Effects: May cause	e long-tern	n adverse effects in the environment. Not biodegradable.				
SECTION 13 – DISPOSAL CONSIDERATIONS							
WASTE DISPOSAL EPA WASTE CODE I DISCARDED (40CFR	This material & its container must be disposed of as hazardous waste. Must be inclinerated in suitable inclineration						
	SECTION 14 – TRANS	PORT I	NFORMATION				
SPECIAL SHIPPING INFORMATION							
SECTION 15 – REGULATORY INFORMATION							
CERCLA – SARA HAZARD CATEGORY; 40 CFR 302.4 (lbs)	Polymethylene polyphenyl isocyanate: 5,000, Butane: 100, Diphenylmethane-4,4'- diisocyanate: 5,000, Dimethylether: 100, Isobutane: 100, Propane: 100. Sec. 302 (Extremely Haz.): No. Sec. 311/312: No.	U.S. STATE REGS	See Section 16.				
SARA 313 Title III	Toxic Chemical: De minimis concentration: CAS 101-68-8: 1%. CAS 9016-87-9: 1%.	TSCA & DSL	All ingredients listed on TSCA Inventory as well as Canadian Domestic Substances List: 12(b) Export				

SECTION 16 – OTHER INFORMATION / SPECIAL PRECAUTIONS / LEGEND

Notification (40 CFR 707, Subpt. D): Not regulated.

NFPA: Fire: 4, Health: 2, Instability: 1. HMIS: Flammability: 4, Health: 2, Physical Haz.: 1. Product is a liquid urethane prepolymer mixture that is packaged under pressure (Flammable Compressed Gas). Containers should be protected from heat, to avoid excessive pressure build-up. Prop. 65: Based on information currently available, product is not known to contain detectable amounts of any chemicals currently listed under California Proposition 65. ECCN Number: EAR99. US Federal Regs: THIS PRODUCT IS A HAZARDOUS CHEMICAL AS DEFINED BY OSHA HAZARD COMMUNICATION STD 29 CFR 1910.1200. US CAA Section 112 HAPS List: MDI (CAS 101-68-8), MDI (CAS 9016-87-9), WHMIS Status: Controlled. INTERNATIONAL EMERGENCY NUMBER: 352-323-3500 – INFOTRAC.

<u>LEGEND</u>: NA – Not Applicable, NE – Not Established, UN – Unavailable, VOC – Volatile Organic Compound, PEL – Permissible Exposure Limit, TLV – Threshold Limit Value, STEL – Short Term Exposure Limit, MSDS – Material Safety Data Sheet, ACGIH – American Conference of Governmental Industrial Hygienists, SARA – Superfund Amendments & Reauthorization Act of 1986, OSHA – Occupational Safety & Health Administration, HMIS – Hazardous Materials Identification System, NTP – National Toxicology Program, CEIL – Ceiling Exposure Limit, CASRN (CAS Number) – Chemical Abstracts Service Registry Number, TSCA – Toxic Substances Control Act, ECCN Number – Export Control Classification Number.

Reviewed By Larry Brandon VP Technology & GM April 9, 2013

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