Material Safety Data Sheet

0909, 0912 Triple Expanding Foam & 0913, 0920 Minimal Expanding Foam

MSDS No. 0113 Rev. 6

Emergency Phone No. 800- 535-5053 - INFOTRAC

	SECTION 1 – PRODUCT NAME & MANUFACTURER	INFORM	ATION				
PRODUCT NAME	Foam & Fill Minimal & Triple Expanding Polyurethane Foams -	Foam & Fill Minimal & Triple Expanding Polyurethane Foams – Aerosol Cans					
MANUFACTURER'S N TELEPHONE NUMBER	Red Devil, Inc.	Red Devil, Inc.					
STREET ADDRESS	4175 Webb Street						
CITY / STATE / ZIP	Pryor, Oklahoma 74361						
SECTIO	N 2 – COMPOSITION / HAZARDOUS INGREDIENTS	%	LD50	LC50	UNITS		
PRODUCT CONSISTS	OF:						
Liquefied Petroleum Gas Blend (mixture)			NA	NA			
4,4 – Diphe	nylmethane Diisocyanate (MDI) (101-68-8)	5 to 10	NA	NA			
Higher Olig	omers of MDI (Polymeric MDI) (9016-87-9)	5 to 10	NA	NA			
Urethane Pr	e-polymer Blend (Non-Hazardous Proprietary Blend) (mixture)	60 to 100	NA	NA			
Non-hazard	ous ingredients*	60 to 100	NA	NA			
*Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). Calculated VOC: < 20%/wt. CARB Compliance: Exempt. Prop 65 Ingredients: None.							
	SECTION 3 – HAZARDS IDENTIFICATIO	- DN					
PRIMARY ROUTE(S) OF ENTRY	Skin Contact Skin Absorption Eye Contact	Inhalation Ingestion		stion			
EMERGENCY OVERVIEW	<u>Physical Hazards</u> : Danger! Extremely flammable. Foam has strong adhesive-like characteristics & will adhere aggressively to skin & other surfaces. Primary adverse health effects are related to Polymeric Isocyanate (MDI) & to a lesser degree, the Liquefied Petroleum Gas.						
EFFECTS OF OVEREXPOSURE	FECTS OF Inhalation: May irritate mucous membranes. Extensive overexposure can lead to respiratory symptoms such as pulmonary edema. Overexposure to liquefied petroleum gas may cause lightheadedness or headaches. Eyes: May be irritating to eyes. Contact can cause physical damage. Skin: May cause irritation, redness & swelling. Prolonged or repeated exposure may result in sensitization. Ingestion: May cause irritation of mucous membranes in mouth & digestive tract.						
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE						
SECTION 4 – FIRST AID MEASURES							
SKIN CONTACT Use rag to remove excess foam. Remove contaminated clothing. Use of a solvent such as Acetone or Mineral Spirits may help remove uncured foam from clothing & other surfaces (avoid eye contact). Cured foam may be physically removed by persistent washing w/ soap & water. If irritation develops, use mild skin cream. If irritation persists, seek medical attention.							
EYE CONTACT	Flush w/ clean water for @ least 15 minutes & seek medical attention.						
INHALATION	THALATION If breathing difficulty experienced, move to fresh air. If necessary, provide oxygen or artificial respiration by trained personnel & seek medical attention.						
INGESTION Drink 1 to 3 glasses of water & seek medical attention. Never give anything orally to an unconscious person.							

SECTION 5 – FIRE FIGHTING MEASURES					
FLAMMABLE Yes No					
EXTINGUISHING MEDIA Dry chemical, carbon dioxide, Halon 1211, chemical foam or water spray. Water contamination will produce carbon dioxide.					
FLASHPOINT (°F) & - 156F, estimated based on METHOD liquefied petroleum gas	UPPER EXPLOSIVE LIMIT NE (% by volume)				
LOWER EXPLOSIVE LIMIT NE (% BY VOLUME)	AUTOIGNITION NE TEMPERTURE (°F)				
UNUSUAL FIRE & EXPLOSION High temperature will raise pressure in containers, which may lead to rupturing. Contents could be sensitive to mechanical impact or static discharge. Vapors released during & immediately after dispensing may ignite explosively if proper ventilation is not employed.					
SPECIAL FIREFIGHTING PROCEDURESCured foam is organic & therefore will burn in the presence of sufficient heat, oxygen & an ignition source. Hazards associated w/ burning foam are similar to burning of other organic materials (wood, paper, cotton, etc) & precautions against exposure should be taken accordingly.					
SECTION 6 – ACCIDENT	TAL RELEASE MEASURES				
PROCEDURES PPE should include impervious gloves, protective eye wear & suitable protective clothing. Uncured foam is very sticky; carefully remove by scraping up, then immediately remove residue w/ a rag & solvent such as polyurethane cleaner, mineral spirits or acetone (nail polish remover). Once cured, product can only be removed physically by scraping, buffing, etc.					
SECTION 7 – HAN	DLING & STORAGE				
HANDLING PROCEDURES & Protect containers from physical abuse. EQUIPMENT					
STORAGE REQUIREMENTS Store in a cool, dry place. Ideal storage temp Storage below 55F may affect foar	berature is 60 to 80F. Storage above 90F will shorten shelf life. In quality if not warmed before using. Protect from freezin				
SECTION 8 – EXPOSURE CONT	TROL / PERSONAL PROTECTION				
RESPIRATORY Provide adequate ventilation. If vapor levels are expected to exceed guidelines, use NIOSH approved positive pressure supplied air respirator.					
EYEWEAR Protective eye wear.					
CLOTHING/ GLOVES Impervious gloves & suitable work clothes.					
HYGENIC PRACTICES Exercise good personal hygiene, wash thoroughly after	er each use.				
SECTION 9 – PHYSICAL A	ND CHEMICAL PROPERTIES				
PHYSICAL STATE Viscous liquid – foams w/ application	Slight hydrocarbon odor during application/curing.				
SPECIFIC GRAVITY Approximately 1.1	VAPOR DENSITY NE AIR=1)				
EVAPORATION RATE NA	SOILING RANGE (°F) NE				
рн NE	SOLUBILITY IN WATERInsoluble; reacts slowly w/ water during cure, liberating traces of CO2.				
VAPOR PRESSURE (MM Hg)In can > 50 psig/345 kPa; after release from can vapor pressure very low.	%/WT VOLATILE NE TNV)				
SECTION 10 - STABILITY AND REACTIVITY					
STABILITY X Yes No Stable w/ storage & handling as directed.					
INCOMPATABILITY Yes No Alcohols, strong bases or amines & metal compounds (small particle metal catalysts).					
CONDITIONS TO AVOID Temperatures above 120F.					
HAZARDOUS POLYMERIZATION/HAZARDOUS DECOMPOSITION PRODUCTS TOxic decomposition by-products: CO, CO2, NO & HCN.					

SECTION 11 – TOXICOLOGICAL INFORMATION / CARCINOGENICITY					
ACGIH Not listed as a carcinogen.					
OSHA NOT	ISHA Not listed as a carcinogen.				
IARC	Not listed as a carcinogen.				
NTP N	Not listed as a carcinogen.				
DATA WITH POSSIBLE N RELEVANCE TO HUMANS	NE				
	SECTION 12 – ECOLOG	GICAL I	INFORMATION		
AQUATIC TOXICITY	NE				
	SECTION 13 – DISPOSA	AL CON	SIDERATIONS		
WASTE DISPOSAL I EPA WASTE CODE IF DISCARDED (40CFR Sec.261)	Dispose of plastic waste (foam plastic) in accordance w/ Local, State & Federal requirements. Before disposing of containers, relieve remaining foam & pressure. Allow product to fully cure before disposing. Never discard in a liquid state.				
	SECTION 14 – TRANSI	PORT II	NFORMATION		
SPECIAL SHIPPING INFORMATION E	SPECIAL SHIPPING INFORMATION Containers 1 liter or less: Ground: Consumer Commodity ORM-D (On shipper carton), Consumer Commodity Polyurethane Foam Sealant HC (On shipping document) <u>Air</u> : UN1950 Aerosols, Flammable 2.1 (Flammable Gas Label), <u>Water</u> : UN1950 Aerosols "LTD QTY" 2. <u>Note</u> : Emergency Response Guide Numbers – Consumer Commodity #171, for Aerosols & Compressed Gas #126. ECCN Number: EAR99.				
SECTION 15 – REGULATORY INFORMATION					
CERCLA - SARA HAZARD CATEGORY (101-6	<u>Title III</u> : Diphenylmethane Diisocyanate (8-8)	U.S. STATE REGS	See Section 16.		
SARA 313 NE		TSCA & DSL	All ingredients listed on TSCA Inventory as well as Canadian Domestic Substances List.		
SECTION 16 – OTHER INFORMATION / SPECIAL PRECAUTIONS / LEGEND					
<u>NFPA</u> : Fire: 2, Health: 2, Reactivity: 1. <u>HMIS</u> : Flammability: 2, Health: 2, Reactivity: 1. Product is a liquid urethane prepolymer mixture that is packaged under pressure (Flammable Compressed Gas). Containers should not be heated above 120F, to avoid excessive pressure build-up. None of the compounds in this product are listed by IARC, NTP, OSHA or ACGIH as a carcinogen. <u>Prop. 65</u> : 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. INTERNATIONAL EMERGENCY NUMBER: 352-323-3500 - INFOTRAC					

LEGEND: 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 March 13, 2012		
	NAME	TITLE	DATE	

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