

Material Safety Data Sheet

0914 Window & Door Low-Expanding
Polyurethane Foam

MSDS No. 0122WDF

Emergency Phone No.

800- 535-5053 - INFOTRAC

SECTION 1 – PRODUCT NAME & MANUFACTURER INFORMATION

PRODUCT NAME	Window & Door Low-Expanding Polyurethane Foam – Aerosol Cans
MANUFACTURER'S NAME & TELEPHONE NUMBER	Red Devil, Inc.
STREET ADDRESS	4175 Webb Street
CITY / STATE / ZIP	Pryor, Oklahoma 74361

SECTION 2 – COMPOSITION / HAZARDOUS INGREDIENTS

	%	LD50	LC50	UNITS
Methylenediphenyl diisocyanate isomers (Polymeric MDI) (9016-87-9)	< 30	NA	NA	
4,4' – methylenediphenyl diisocyanate (MDI) (191-68-8)	< 30	NA	NA	
Dimethyl ether (115-10-6)	< 15	NA	NA	
Propane (74-98-6)	< 20	NA	NA	
Butane (106-97-8)	< 20	NA	NA	
Isobutane (75-28-5)	< 20	NA	NA	
Urethane Pre-polymer Blend (CAS No. not available) (Non-Haz proprietary polyol blend)	< 50	NA	NA	

*Unlisted Ingrid. not considered hazardous under OSHA Haz. Com. Std. (29 CFR 1910.1200).
Calculated VOC Content: ~ 183 g/L. CARB Compliance: Exempt. Prop 65 Ingrid: No.

SECTION 3 – HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF ENTRY Skin Contact Skin Absorption Eye Contact Inhalation Ingestion

EMERGENCY OVERVIEW DANGER! 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.

SECTION 4 – FIRST AID MEASURES

SKIN CONTACT 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 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.

INGESTION 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	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Extremely flammable aerosol.	
EXTINGUISHING MEDIA	Large fires: Dry chemical, foam or water spray. Small fires: CO ₂ , dry chemical or water spray.		
FLASHPOINT (°F) & METHOD	~ 32F (0C) - propellant	UPPER EXPLOSIVE LIMIT (% BY VOLUME)	11.0 Vol. %
LOWER EXPLOSIVE LIMIT (% BY VOLUME)	1.5 Vol. %	AUTOIGNITION TEMPERATURE (°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.		
SPECIAL FIREFIGHTING PROCEDURES	Hardened foam is an organic matter & will burn in the presence of sufficient heat, oxygen & ignition source.		

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PROCEDURES	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.		
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SECTION 7 – HANDLING & STORAGE

HANDLING PROCEDURES & EQUIPMENT	Keep away from heat, spark, open flame & other ignition sources. Protect containers from physical abuse.		
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

RESPIRATORY	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. <u>Engineering Measures</u> : Ensure adequate ventilation, especially in confined areas. Ventilation rates should be matched to conditions.		
EYEWEAR	Protective eye wear; safety glasses as a minimum.		
CLOTHING / GLOVES	Impervious 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	Aerosol – rapidly curing foam dispensed by gaseous propellant from aerosol container.	ODOR & APPEARANCE	Characteristic odor; pale yellow color
SPECIFIC GRAVITY	NE	VAPOR DENSITY (AIR=1)	NE
EVAPORATION RATE	NA	BOILING RANGE (°F)	NE
pH	NE	SOLUBILITY IN WATER	Insoluble; reacts w/ water.
VAPOR PRESSURE (MM Hg)	NE	%/WT VOLATILE (TNV)	NE

SECTION 10 – STABILITY AND REACTIVITY

STABILITY	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Stable w/ storage & handling as directed. Stable in normal conditions.
INCOMPATIBILITY	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Incompatible w/ oxidizers, acids, bases, amines, water, aluminum, copper, alcohols & metal compounds.
CONDITIONS TO AVOID	Avoid storage in temperatures exceeding 104F (40C). Protect against mechanical shocks. Avoid heat & moisture.	
HAZARDOUS POLYMERIZATION/HAZARDOUS DECOMPOSITION PRODUCTS	Following application, polymerization occurs. No hazardous decomposition products known.	

