

Material Safety Data Sheet

0870, 0871 Series Clear High Performance Adhesive Sealant – Solvent Based

MSDS No. 0099 Rev. 3

Emergency Phone No.
(918)825-5744

SECTION 1 – PRODUCT NAME & MANUFACTURER INFORMATION

PRODUCT NAME	High Performance Adhesive Sealant – Solvent Based - Clear
MANUFACTURER'S NAME & TELEPHONE NUMBER	Red Devil, Inc. 918-825-5744
STREET ADDRESS	4175 Webb Street
CITY / STATE / ZIP	Pryor, Oklahoma 74361

SECTION 2 – COMPOSITION / HAZARDOUS INGREDIENTS

	%	TLV	PEL	UNITS
PRODUCT CONSISTS OF:				
Light aliphatic solvent naphtha (64742-89-8)	< 30	400	500	ppm
Polyalicyclic resin (mixture)	< 35	NE	NE	
Xylene (1330-20-7)	< 10	100	100	ppm
Non-hazardous ingredients*	< 30	NA	NA	
*Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). Calculated VOC: < 42%/wt. (< 400 g/L). CARB Compliance: EXEMPT. Prop 65 Ingredients: None.				

SECTION 3 – HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF ENTRY	<input checked="" type="checkbox"/> Skin Contact	<input checked="" type="checkbox"/> Skin Absorption	<input checked="" type="checkbox"/> Eye Contact	<input checked="" type="checkbox"/> Inhalation	<input checked="" type="checkbox"/> Ingestion
EMERGENCY OVERVIEW	Danger. Flammable liquid & vapor. Vapor harmful. Harmful or fatal if swallowed. Vapors may cause flash fire or explosion. Aspiration hazard if swallowed; can enter lungs & result in damage. Harmful if inhaled. May irritate eyes, skin, nose & upper respiratory tract.				
EFFECTS OF OVEREXPOSURE	<u>Eye Contact:</u> May cause eye irritation. <u>Skin Contact:</u> May irritate skin. Prolonged or repeated contact can result in defatting & drying of the skin which can result in skin irritation & dermatitis (skin rash). Can be absorbed through skin. <u>Inhalation:</u> Vapor harmful if inhaled. Vapor may irritate nose & upper respiratory tract. Inhaled vapor may affect brain or nervous system resulting in dizziness, headache or nausea. Prolonged vapor inhalation may result in severe physical injury. <u>Ingestion:</u> Material may be harmful or fatal if swallowed. Aspiration of material into lungs due to vomiting can cause chemical pneumonitis which can be fatal. If ingested, product may cause vomiting, diarrhea & depressed respiration. <u>Chronic Hazards:</u> Reports have associated permanent brain & nervous system damage w/ prolonged & repeated occupational overexposure to solvents. Symptoms include: loss of memory, loss of intellectual ability & loss of coordination. Overexposure or misuse of Xylene can cause liver, kidney & brain damage as well as cardiac abnormalities & reproductive toxicity.				
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	None known.				

SECTION 4 – FIRST AID MEASURES

SKIN CONTACT	Wash w/ soap & water for @ least 15 minutes. Get medical attention if symptoms persist. Remove & wash contaminated clothing.
EYE CONTACT	Immediately flush w/ large quantities of water for @ least 15 minutes until irritation subsides. Get medical attention.
INHALATION	Remove to fresh air. If not breathing, give artificial respiration. If breathing difficult, give oxygen & contact a physician immediately. Only trained individuals should give artificial respiration or administer oxygen.
INGESTION	Do not induce vomiting. Get immediate medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

FLAMMABLE	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
EXTINGUISHING MEDIA	Carbon Dioxide, Dry Chemical, Foam		
FLASHPOINT (°F) & METHOD	< 100F (Closed Cup)	UPPER EXPLOSIVE LIMIT (% BY VOLUME)	~ 8%
LOWER EXPLOSIVE LIMIT (% BY VOLUME)	~ 1%	AUTOIGNITION TEMPERATURE (°F)	NE
UNUSUAL FIRE & EXPLOSION HAZARDS	Flammable. Material will readily ignite @ RT. Vapors may form explosive mixture w/ air. Vapors can travel long distances to a source of ignition & flashback. Eliminate ignition source: heat, electrical equipment, sparks, pilot lights, stoves & flames. Do not smoke or put in contact w/ oxidizing or caustic materials. Containers may explode if exposed to heat.		
SPECIAL FIREFIGHTING PROCEDURES	Full protective equipment, including self-contained breathing apparatus, is suggested to protect from combustion products. Cool exposed containers w/ water.		

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PROCEDURES	Dike spill area. Immediately eliminate sources of ignition. Use absorbent material or scrape up dried material & place into appropriate containers.
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SECTION 7 – HANDLING & STORAGE

HANDLING PROCEDURES & EQUIPMENT	Keep out of reach of children & pets. Avoid eye & skin contact. Avoid breathing vapors. Use only in well ventilated area. Ensure entry of fresh air.
STORAGE REQUIREMENTS	Store away from caustics & oxidizers. Protect from heat, sparks & flames. Keep containers tightly closed when not in use. Protect containers from excessive heat & freezing. Do not store @ temperatures above 120F.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

RESPIRATORY	If watering of eyes experienced, headache or dizziness or if used in workplace & air monitoring indicates vapor levels above exposure limits, use NIOSH approved respiratory protection in accordance w/ Federal, State & Local requirements. Consult safety equipment supplier & OSHA Regulation 29 CFR 1910.134 for respirator requirements.
EYEWEAR	Goggles or safety glasses w/ side shields.
CLOTHING / GLOVES	Solvent impervious gloves. Readily accessible eyewash, as well as solvent impervious apron if contact may occur.
HYGENIC PRACTICES	Remove & wash contaminated clothing before re-use. Wash hands before breaks & @ end of workday.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Viscous paste	ODOR & APPEARANCE	Clear paste w/ solvent odor. Odor threshold not established
SPECIFIC GRAVITY	Approximately 0.75 to 1.25	VAPOR DENSITY (AIR=1)	Heavier than air; > 1
EVAPORATION RATE	Faster than butyl acetate	BOILING RANGE (°F)	> 193F
pH	NE	SOLUBILITY IN WATER	Insoluble
VAPOR PRESSURE (MM Hg)	< 120	%/WT VOLATILE (TNV)	< 50%

SECTION 10 – STABILITY AND REACTIVITY

STABILITY	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Stable under normal conditions.
INCOMPATIBILITY	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Strong oxidizers & caustics.
CONDITIONS TO AVOID	Excessive & freezing.	
HAZARDOUS POLYMERIZATION/HAZARDOUS DECOMPOSITION PRODUCTS	Hazardous polymerization will not occur under normal conditions. Normal decomposition products, ie: COx, NOx.	

SECTION 11 – TOXICOLOGICAL INFORMATION / CARCINOGENICITY

ACGIH	No product toxicological information available.
OSHA	No product toxicological information available.
IARC	Possibly carcinogenic to humans (due to evidence in animals per IARC). No other product toxicological information available.
NTP	No product toxicological information available.
DATA WITH POSSIBLE RELEVANCE TO HUMANS	No known applicable information. See above.

SECTION 12 – ECOLOGICAL INFORMATION

AQUATIC TOXICITY	No product information is available.
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SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL	Dispose of material in accordance w/ Federal, State & Local regulations. Discarded material should be incinerated @ permitted facility. Liquids can not be disposed of in landfill. Do not reuse empty container. State & Local Regulations may differ from Federal
EPA WASTE CODE IF DISCARDED (40CFR Sec.261)	If discarded (40 CFR 261): D001 Ignitable.

SECTION 14 – TRANSPORT INFORMATION

SPECIAL SHIPPING INFORMATION	DOT Proper Shipping Name: Solids containing flammable liquids, N. O. S. (Xylene) (Consumer Commodity *) DOT Hazard Class: 4.1 (Flammable Solid) (ORM-D *) DOT UN/NA Number 3175 (None *) Packing Group: II (None *) * For containers of 1 gallon or less. <u>Note:</u> Shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation &/or to non-domestic destinations.
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SECTION 15 – REGULATORY INFORMATION

CERCLA – SARA HAZARD CATEGORY	OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). CERCLA – SARA: Product reviewed according to EPA Hazard Categories (SARA Title III, 311 & 312: Immediate Health Hazard, Chronic Health Hazard, Fire Hazard.	U.S. STATE REGS	See Section 16.
SARA 313	Product contains the following substances subject to reporting requirements of Section 313 of Title III: Xylene (1330-20-7)	TSCA	Product contains the following substances subject to reporting requirements of TSCA 12 (b) if exported from United States: Xylene (1330-20-7).

SECTION 16 – OTHER INFORMATION / SPECIAL PRECAUTIONS / LEGEND

Prop 65 Ingredients: (Known to State of California to cause cancer) None. NJ Right-to-Know: (Top 5 Ingredients): Light aliphatic solvent naphtha (64742-89-8), Polyalicyclic resin (mixture), Xylene (1330-20-7) (Contents partially unknown) (. Pennsylvania Right-to-Know (Non-Haz @ >3%): Contents partially unknown. Ingredients Known to State of California to cause birth defects or reproductive harm: None. HMIS Ratings: Health: 1, Flammability: 3, Reactivity: 0. Product EXEMPT in terms of VOC's & suitable for sale in California, OTC States, LADCO Region & other areas w/ VOC Limits in effect. (Toluene removed from formulation in 2005). Canadian WHMIS Class: No information available.

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, NFPA – National Fire Protection Association.

Reviewed By: <u>Larry G. Brandon</u>	<u>VP Technology & General Manager</u>	<u>February 18, 2010</u>
NAME	TITLE	DATE

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