

Material Safety Data Sheet

0675, 0676, 0677 Multi-Purpose Construction Adhesive – Solvent Based

MSDS No. 0060 Rev. 3

Emergency Phone No.
(918)825-5744

SECTION 1 – PRODUCT NAME & MANUFACTURER INFORMATION

PRODUCT NAME	Multi-Purpose Construction Adhesive – Solvent Based		
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:				
Hexane (110-54-3) (ACGIH TLV) (OSHA PEL)	< 20	50	50	ppm
Toluene (108-88-3)	< 10	500	150	ppm
Light Aliphatic Naphtha (64742-89-8)	< 25	300	300	ppm
Ethanol (64-17-5)	< 5	1000	1000	ppm
Calcium Carbonate **(1317-65-3)	< 50	10	15	mg/m3
Non-hazardous ingredients*	< 20	NE	NE	
*Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). **Inhalation not likely due to products physical state. Calculated VOC: 30 to 40%/wt (310 to 330 g/L). CARB Compliance: No. Prop 65 Ingredients: Yes (Section 16).				

SECTION 3 – HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF ENTRY	<input checked="" type="checkbox"/> Skin Contact	<input checked="" type="checkbox"/> Skin Absorption	<input type="checkbox"/> Eye Contact	<input checked="" type="checkbox"/> Inhalation	<input type="checkbox"/> Ingestion
EMERGENCY OVERVIEW	Tan mastic paste that causes eye, skin, respiratory & gastrointestinal irritation. Reports have associated repeated & prolonged overexposure to solvents w/ permanent brain, nervous system, liver or kidney damage or may cause cardiac arrhythmia. Intentional misuse of product by deliberately inhaling vapors may be harmful or fatal. N-Hexane can cause peripheral neuropathy (damage to arms & legs) & central nervous system damage. Repeated overexposure to Toluene may cause liver damage.				
EFFECTS OF OVEREXPOSURE	<u>Eye Contact</u> : Can cause irritation, redness, tearing & blurred vision. <u>Skin</u> : Prolonged or repeated contact can cause moderate irritation, drying of the skin & dermatitis. May be harmful if absorbed through skin. <u>Inhalation</u> : Excessive inhalation of vapors can cause respiratory irritation, headache, drowsiness & fatigue. High concentrations of vapors are anesthetic & may cause central nervous system effects such as dizziness. <u>Ingestion</u> : Can cause gastrointestinal irritation, nausea, vomiting & diarrhea.				
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	May aggravate pre-existing disorders of these organs in humans: Liver & reproductive abnormalities, kidney, spleen, lungs or eyes.				

SECTION 4 – FIRST AID MEASURES

SKIN CONTACT	Wash thoroughly w/ soap & water. Apply a mild skin cream & seek medical attention if irritation persists. Remove contaminated clothing & wash before reuse.
EYE CONTACT	Flush eyes w/ plenty of water for @ least 15 minutes, lifting eyelids occasionally & seek medical attention.
INHALATION	Move to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Seek medical attention.
INGESTION	DO NOT INDUCE VOMITING. Seek immediate medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

FLAMMABLE	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Highly Flammable.
EXTINGUISHING MEDIA	Carbon Dioxide, Dry Chemical, Foam. Use water fog to cool material in proximity of fire.	
FLASHPOINT (°F) & METHOD	0 to 50F (Tag Closed Cup)	UPPER EXPLOSIVE LIMIT (% BY VOLUME) Approximately 7%.
LOWER EXPLOSIVE LIMIT (% BY VOLUME)	Approximately 1%.	AUTOIGNITION TEMPERATURE (°F) NE
UNUSUAL FIRE & EXPLOSION HAZARDS	Closed containers may rupture when exposed to extreme heat. Solvent vapors are heavier than air & travel along the ground. Vapors given off are flammable & may ignite explosively.	
SPECIAL FIREFIGHTING	Use self-contained breathing apparatus including full facepiece, operated in pressure demand w/ full protective equipment.	

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PROCEDURES	Eliminate all ignition sources. Ventilate area. Wear appropriate protective clothing. Cover spill w/ absorbent & scoop into sealable safety container.
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SECTION 7 – HANDLING & STORAGE

HANDLING PROCEDURES & EQUIPMENT	Keep away from children & pets. Keep away from heat, spark & flame. Keep container closed when not in use. Do not cut or burn containers that have contained a solvent based product. Do not reuse container. Use only in well ventilated area.
STORAGE REQUIREMENTS	Store in a cool, ventilated area.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

RESPIRATORY	If TLV of product exceeded, a NIOSH/MSHA jointly approved air supply respirator is advised in absence of proper ventilation. OSHA regulations also allow use of other types of NIOSH/MSHA respirators under specified conditions. Provide sufficient mechanical ventilation to maintain exposure below TLV.
EYEWEAR	Chemical goggles or safety glasses w/ side shields should be worn.
CLOTHING / GLOVES	Rubber gloves should be worn where skin contact is likely. Impervious clothing & shoes are suggested.
HYGENIC PRACTICES	Wash thoroughly w/ soap & water before breaks & @ end of workday.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Paste/Mastic	ODOR & APPEARANCE	Solvent odor – tan paste
SPECIFIC GRAVITY	Approximately 1.0 to 1.25	VAPOR DENSITY (AIR=1)	Heavier than air
EVAPORATION RATE	Approx. 4 to 5 times faster than n-Butyl Acetate	BOILING RANGE (°F)	Approx. 150F to 250F
pH	NE	SOLUBILITY IN WATER	Insoluble
VAPOR PRESSURE (MM Hg)	Approx. 155 @ 68F	%/WT VOLATILE (TNV)	Approx. 30 to 40%

SECTION 10 – STABILITY AND REACTIVITY

STABILITY	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Stable under normal storage conditions.
INCOMPATIBILITY	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Keep away from strong oxidizing agents.
CONDITIONS TO AVOID	Keep away from heat, spark, open flames & any ignition source.	
HAZARDOUS POLYMERIZATION/D ECOMPOSITION PRODUCTS	Hazardous polymerization will not occur under normal conditions. Hazardous decomposition will produce fumes & smoke containing carbon monoxide & dioxide under fire conditions.	

SECTION 11 – TOXICOLOGICAL INFORMATION / CARCINOGENICITY

ACGIH	<u>Carcinogenicity</u> : NE. Prolonged & repeated exposure to Hexane has caused damage to lab animals. Repeated overexposure to Toluene may cause liver damage.
OSHA	<u>Carcinogenicity</u> : No. Prolonged & repeated exposure to Hexane has caused damage to lab animals. Repeated overexposure to Toluene may cause liver damage.
IARC	<u>Carcinogenicity</u> : NE. (See ACGIH & OSHA above for toxicological)
NTP	<u>Carcinogenicity</u> : NE. (See ACGIH & OSHA above for toxicological)
DATA WITH POSSIBLE RELEVANCE TO HUMANS	Reports have associated repeated & prolonged overexposure to solvents w/ permanent brain, nervous system, liver or kidney damage & may cause cardiac arrhythmia.

SECTION 12 – ECOLOGICAL INFORMATION

AQUATIC TOXICITY Material leaked or spilled into waterway, may be harmful to aquatic life, depending upon concentration.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL Dispose of in accordance with all Local, State & Federal requirements.
EPA WASTE CODE IF DISCARDED (40CFR Sec.261) Not found.

SECTION 14 – TRANSPORT INFORMATION

SPECIAL SHIPPING INFORMATION Ground Transport (DOT) Domestic: Units < 5L (1.3 gallons liquid) ie: 10 oz, 28 oz, 1 gallon. Proper Shipping Name: Consumer Commodity. Classification: ORM-D. DOT Label Required: ORM-D. Shipping Document: Consumer Commodity, ORM-D. ERG Code: 171. Units > 5L ie: 5 gal pail. Proper Shipping Name: Adhesive. Classification: Class 3. DOT Label Required: Flammable Liquid, UN133, Class 3. Shipping Document: Adhesive, 3, UN133, PGIII. For 50 gallon drum use PG II. ERG Code: 128. Air Transport (DOT) Domestic: Units < 5L: Proper Shipping Name: Consumer Commodity. Classification: ORM-D. DOT Label Required: ORM-D-Air. Shipping Document: Consumer Commodity, ORM-D. ERG Code: 171. Units > 5L (ie: 5 gal pail): Proper Shipping Name: Adhesive. Classification: Class 3. DOT Label Required: Flammable Liquid, UN133, Class 3. Shipping Document: Adhesive, 3, UN133, PGIII, for 50 gal drum use PG II. ERG Code: 128. Air Transport (IATA) – International: Units < 5L: Proper Shipping Name: Consumer Commodity. Classification: Class 9. Label Required: ID8000. Shipping Document: Consumer Commodity, 9, ID8000. ERG Code: 9L. Units > 5L: Proper Shipping Name: Adhesive. Classification: Class 3. Label Required: Flammable Liquid, UN133, Class 3. Shipping Document: Adhesive, 3, UN133, PGIII, for 50 gal use PG II. ERG Code: 3L. Marine – Ocean Transport (IMDG) Units < 5L: Proper Shipping Name: Adhesive. Classification: Class 3. Label Required: Flammable Liquid, UN133, Class 3, Ltd. Qty. Shipping Document: Adhesive, 3, UN133, PGIII, Ltd. Qty. EMS Code: F-E, S-D. Units > 5L: Proper Shipping Name: Adhesive. Classification: Class 3. Label Required: Flammable Liquid, UN133, Class 3. Shipping Document: Adhesive, 3, UN133, PGIII, for 50 Gal drum use PG II. EMS Code: F-E, S-D

SECTION 15 – REGULATORY INFORMATION

CERCLA – SARA 311/312HAZARD CATEGORY	SARA Hazard Categories Met: Fire Hazard, Immediate (Acute) & Delayed (Chronic) Health Hazards. No CERCLA information found.	U.S. STATE REGS	See Section 16.
SARA 313	SARA 313: Toluene (108-88-3), n-Hexane (110-54-3)	TSCA	Ingredients listed on TSCA Inventory.

SECTION 16 – OTHER INFORMATION / SPECIAL PRECAUTIONS / LEGEND

Prop 65 List (Chemicals known to the state of California to cause cancer): Silica, Crystalline (present in small amounts in Calcium Carbonate Filler. Prop 65 (Teratogen): Product contains a chemical known to the state of California to cause birth defects or other reproductive harm. (Toluene (108-88-3) Note: Boiling Range, Evaporation, Vapor Density & Pressure = Solvent Only. New Jersey Right-to-Know: (Top 5 Ingredients): Hexane, Toluene, Light Aliphatic Naphtha, Ethanol, Calcium Carbonate (see Sec. 2 for additional information). Pennsylvania Right-to-Know (Non-Haz @ > 3%): None. HMIS Rating: Health: 1, Fire: 3, Reactivity: 0, PPE: B. **WARNING**: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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: Larry G. Brandon VP Technology & General Manager January 25, 2010
NAME TITLE DATE

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