

Material Safety Data Sheet

18848 (0464/AC) - Quart, 18849 (0461/AC) - Gallon

MSDS No. 0300 Rev. New

Emergency Phone No.
(918)825-5744

SECTION 1 – PRODUCT NAME & MANUFACTURER INFORMATION

PRODUCT NAME	ACE Hardware Concrete Bonding Additive		
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:				
Aqueous Emulsion (mixture)	< 95	NE	NE	
Propylene Glycol (57-55-6) ***	< 5	400 **	NE	ppm
Non-hazardous ingredients*	< 10	NA	NA	
*Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). ** TWA. *** Formula contains no Ethylene Glycol. Calculated VOC: < 55 g/L. CARB Compliance: Yes. Prop 65 Ingredients: None (See Section 16)				

SECTION 3 – HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF ENTRY	☒ Skin Contact	☒ Skin Absorption	☒ Eye Contact	☒ Inhalation	☒ Ingestion
EMERGENCY OVERVIEW	White liquid (Clear @ full cure), w/ slight latex odor. No known physical hazards. May cause slight eye irritation. May cause an allergic skin reaction. No acute toxic effects are expected from inhalation during normal use. Ingestion not expected w/ normal use. Contains chemicals present @ < 0.1 %/weight which may cause skin sensitization. This material contains vinyl acetate (108-05-4). Vinyl acetate has been classified by IARC as possible human carcinogen (Group 2B) on the base of "inadequate evidence in humans for the carcinogenicity of vinyl acetate" & of "limited evidence in experimental animals for the carcinogenicity of vinyl acetate." Normally this lack of conclusive evidence would place a substance in the IARC Category 3 ("Not classifiable as to it's carcinogenicity to humans"). However, because vinyl acetate is metabolized to acetaldehyde, which has an IARC 2B classification, it also has been listed under Category B. This material does not contain any reproductive toxins @ or above OSHA or WHMIS reportable limits. This material contains 0.1% of a substance which may cause cancer, however the relevance to humans has not been determined.				
EFFECTS OF OVEREXPOSURE	May cause eye, skin, nose, throat & respiratory tract irritation. Prolong, repeated or high exposures may cause weakness & depression of central nervous system. Harmful if swallowed. If ingested, may cause vomiting, diarrhea & breathing difficulty. Prolonged & repeated skin contact may result in dermatitis.				
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 breathing difficult, leave area to obtain fresh air. If breathing remains difficult, get medical attention.
INGESTION	DO NOT INDUCE VOMITING. If conscious, give several glasses of water. Get immediate medical attention.

SECTION 5 – FIRE FIGHTING MEASURES

FLAMMABLE ☐ Yes ☒ No Material does not burn. Dried up material is combustible.

EXTINGUISHING MEDIA Use extinguishing measures appropriate to the source of fire. Water may be used to cool containers & structures adjacent to the fire.

FLASHPOINT (°F) & METHOD >200F (Seta Closed Cup)

UPPER EXPLOSIVE LIMIT (% BY VOLUME) NE

LOWER EXPLOSIVE LIMIT (% BY VOLUME) NE

AUTOIGNITION TEMPERATURE (°F) NE

UNUSUAL FIRE & EXPLOSION HAZARDS None required.

SPECIAL FIREFIGHTING PROCEDURES Fire fighters should wear full protective clothing including a self-contained breathing apparatus.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PROCEDURES Wear proper protective equipment (Section 8). Use absorbent material or scrape up dried material & place in approved container. If material is released, indicate risk of slipping. Hazwoper PPE Level: C. Prevent material from entering sewers or surface waters. Dispose of in accordance w/ local/state/federal regulations.

SECTION 7 – HANDLING & STORAGE

HANDLING PROCEDURES & EQUIPMENT General information: No special protective measures required. Handling: Spilled substance increases risk of slipping. Precautions against fire & explosion: None required. Storage: Protect against freezing.

STORAGE REQUIREMENTS Close container after each use. Store containers away from excessive heat & freezing. Do not store @ temperatures above 120F. Store away from caustics & oxidizers.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

RESPIRATORY Use w/ adequate ventilation. Local exhaust not necessary under normal use.

EYEWEAR Chemical safety goggles.

CLOTHING / GLOVES Rubber gloves. Protective clothing to cover exposed areas of arms, legs & torso.

HYGENIC PRACTICES Remove & wash contaminated clothing before re-use. Wash hands before breaks & @ end of workday. Avoid contact w/ eyes, skin & clothing

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE Liquid ODOR & APPEARANCE Slight odor; liquid

SPECIFIC GRAVITY Approximately 1.0 to 1.15 VAPOR DENSITY (AIR=1) Heavier than air

EVAPORATION RATE NE BOILING RANGE (°F) 210 to 220F

pH Approximately 4.5 to 5.5 SOLUBILITY IN WATER Moderately soluble.

VAPOR PRESSURE (MM Hg) 23 hPa @ 68F (20C) %/WT VOLATILE (TNV) Approximately 50 to 60%

SECTION 10 – STABILITY AND REACTIVITY

STABILITY ☒ Yes ☐ No Stable under normal conditions.

INCOMPATIBILITY ☐ Yes ☒ No None known

CONDITIONS TO AVOID Excessive heat & freezing

HAZARDOUS POLYMERIZATION/HAZARDOUS DECOMPOSITION PRODUCTS If stored & handled in accordance w/ standard industrial practices & local regulations where applicable: None known. At increased temperature: Acetic acid. Hazardous polymerization will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION / CARCINOGENICITY

ACGIH	NE
OSHA	See Section 3 – Emergency Overview.
IARC	See Section 3 – Emergency Overview.
NTP	NE
DATA WITH POSSIBLE RELEVANCE TO HUMANS	During manufacture & use; no information on damage to health.

SECTION 12 – ECOLOGICAL INFORMATION

AQUATIC TOXICITY	Not readily biodegradable. Polymer component; Elimination by adsorption to activated sludge. Separation by flocculation is possible. Behavior in environmental compartments: Mobility. No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected. General information: Prevent material from entering surface waters & soil. Only introduce into water purification plants in diluted state. No environmental problems expected if handled & treated in accordance w/ standard industrial practices & local regulations where applicable.
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SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL	Dispose of material in accordance w/ Federal, State & Local regulations. Recommended cleaning agent: Water.
EPA WASTE CODE IF DISCARDED (40CFR Sec. 261)	None.

SECTION 14 – TRANSPORT INFORMATION

SPECIAL SHIPPING INFORMATION	US DOT & Canada TDG Surface: Not regulated for transport. Other: Protect from freezing. Transport by sea IMDG Code: Not regulated for transport. Air transport ICAO-TI/IATA-DGR: Not regulated for transport.
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SECTION 15 – REGULATORY INFORMATION

CERCLA – SARA HAZARD CATEGORY	Yes. Vinyl acetate (108-05-4) Upper limit wt%: 0.2. SARA 302: This material does not contain any SARA Extremely Hazardous Substances. SARA 311/312 Haz. Class: Delayed (Chronic) health hazard.	U.S. STATE REGS	See Section 16.
SARA 313	Vinyl acetate (108-05-4) Upper limit wt. %: 0.2.	TSCA	All ingredients either on TSCA Inventory or exempt

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): Base Emulsion (mixture, including Vinyl acetate monomer (108-05-4)), Water (7732-18-5), Propylene Glycol (57-55-6) Pennsylvania Right-to-Know Hazardous Substance List: Vinyl acetate (108-05-4) Ingredients Known to State of California to cause birth defects or reproductive harm: None. Massachusetts Substance List: Vinyl acetate (108-05-4), HMIS Ratings: Health: 1, Flammability: 0, Reactivity: 0, PPE: B. Canadian Regulations: Product has been classified w/ hazard criteria of the CPR & the MSDS contains all information required by the CPR. WHMIS Haz Classes: D2A. DSL Status: This material or its components are listed on the Canadian Domestic Substances List. Non-DSL Chemicals: This material does not contain any non-DSL chemicals. Canadian Ingredient Disclosure List Vinyl acetate (108-05-4).

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, hPa – Hectopascals, WHMIS: Canadian Workplace Hazardous Materials Identification System

Reviewed By: <u>Larry G. Brandon</u>	<u>VP Technology & General Manager</u>	<u>May 1, 2008</u>
NAME	TITLE	DATE

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