

**Material Safety Data Sheet**

May be used to comply with  
 OSHA's Hazard Communication Standard,  
 29 CFR 1910.1200. Standard must be  
 consulted for specific requirements.

**U.S. Department of Labor**

Occupational Safety and Health Administration  
 (Non-Mandatory Form)  
 Form Approved  
 OMB No. 1218-0072



**IDENTITY (As Used on Label and List)**  
 DUALLE 88 All Purpose Cement

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

**Section I**

Manufacturer's Name R-H Products Co., Inc.	Emergency Telephone Number 1-800-535-5053
Address (Number, Street, City, State, and ZIP Code) 308 Old High Street	Telephone Number for Information 1-978-897-8000
Box 2301	Date Prepared March 11, 2003
Acton, MA USA 01720	Signature of Preparer (optional) <i>Kurt Parley</i>

**Section II — Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	By Weight % (optional)
Toluene CAS# 108-88-3	100 ppm	100 ppm	50 ppm skin	38 %
Heptane CAS# 142-82-5	400 ppm	400 ppm		32.3 %
Ethyl Acetate CAS# 141-78-6	400 ppm	400 ppm		7.9 %
Acetone CAS# 67-64-1	750 ppm	750 ppm		3.5 %

(Toluene is subject to the reporting requirements of section 313 of SARA Title III)

OSHA Hazard: FLAMMABLE, IRRITANT

DOT Information: ADHESIVES, 3, UN 1133, PG II ERG # 127

V.O.C.'s total- 5.7 lbs/gal

NFPA Ratings: Health-2, Flammability-3, Reactivity-0

HMIS Ratings: Health-1, Flammability-3, Reactivity-0

Key: Extreme-4, High-3, Moderate-2, Slight-1

Abbreviations used: N/D Not Determined N/A Not Applicable

**Section III — Physical/Chemical Characteristics**

Boiling Point Acetone	132° F	Specific Gravity (H <sub>2</sub> O = 1)	.87
Vapor Pressure (mm Hg.) @ 68°F	180 mm	Melting Point	N/D
Vapor Density (AIR = 1)	Heavier	Evaporation Rate (Butyl Acetate = 1)	Slower

Solubility in Water Insoluble in water

Appearance and Odor Clear to Amber color Characteristic Solvent odor

**Section IV — Fire and Explosion Hazard Data**

Flash Point (Method Used) 14.5° F ASTM D-56	Flammable Limits	LEL 1%	UEL 12%
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Extinguishing Media CO<sub>2</sub> Dry Chemical Foam

**Special Fire Fighting Procedures**

Fire Fighters should be equipped with self-contained breathing apparatus when fighting fires involving this material.

**Unusual Fire and Explosion Hazards**

Extremely Flammable. Overheated, closed container near a fire could explode due to pressure buildup.

**Section V — Reactivity Data**

Stability	Unstable		Conditions to Avoid
	Stable	X	N/A

Incompatibility (Materials to Avoid)

Oxidizing Agents, Acids, Alkalies and Nitrates

Hazardous Decomposition or Byproducts

CO<sub>2</sub>, HCl, CO when subjected to flames or excessive heat

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	N/A

**Section VI — Health Hazard Data**

Route(s) of Entry:	Primary	Inhalation?	Yes	Skin?	Yes	Ingestion?	Yes
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Health Hazards (Acute and Chronic) Eyes- Liquid mildly irritating. Overexposure may also cause irritation. Skin- Prolonged contact can cause dermatitis and possible dermatitis. Breathing- Overexposure may cause irritation to respiratory system. Extreme overexposure to vapors could result in asphyxiation. Chronic overexposure to vapors could result in central nervous system, liver and kidney damage. Ingestion- May cause gastrointestinal irritation.

Carcinogenicity:	None	NTP?	N/A	IARC Monographs?	N/A	OSHA Regulated?	N/A
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Signs and Symptoms of Exposure Eyes- Redness, tearing and swelling. Skin- Dryness of skin including cracking. Breathing- Overexposure includes dizziness, headache, nausea and light headedness. Swallowing- Nausea, vomiting and diarrhea.

Medical Conditions Generally Aggravated by Exposure Skin- Prolonged contact will defat skin and cause dermatitis. Breathing- Extreme overexposure of vapors of Toluene or n-Hexane may cause nervous system damage. Swallowing- May cause nausea, vomiting and diarrhea. Aspiration into the lungs as a result of vomiting may cause lung damage.

Emergency and First Aid Procedures Eye contact- Flush immediately with water. Call a physician. Skin contact- Wash area with soap and water. Breathing- Move affected person to fresh air at once. Restore breathing. Call a physician if difficulties persist. If swallowed, DO NOT INDUCE VOMITING. Give 2 glasses of water. Call a physician. If vomiting occurs, lower head between

**Section VII — Precautions for Safe Handling and Use**

Knees to prevent aspiration into lungs.

Steps to Be Taken in Case Material Is Released or Spilled

Extinguish all sources of ignition in area. Collect spilled material and place in a closed container for disposal or salvage.

Waste Disposal Method Dispose in accordance with local and current U.S. E.P.A. regulations.

U.S. E.P.A. Hazardous Waste Number: D 001 (Ignitable)

Precautions to Be Taken in Handling and Storing

Keep away from heat, open flames and sparks. Use and store with adequate ventilation to prevent vapor buildup. Vapors released by product can easily ignite.

Other Precautions

Avoid contact with skin and eyes. Avoid prolonged breathing of vapors.

Keep container closed when not in use. KEEP OUT OF REACH OF CHILDREN.

**Section VIII — Control Measures**

Respiratory Protection (Specify Type) If exposure does exceed occupational exposure limits, use a NIOSH approved respirator to prevent overexposure. Per 29 CFR 1910.134, CCRV or SA types recommended.

Ventilation	Local Exhaust Should be used to maintain exposure below TLV (8)	Special, Explosion proof ventilation may be required to control vapor concentrations.
	Mechanical (General) Should be used to maintain exposure below TLV (8)	Other N/D

Protective Gloves	Impervious Glove	Eye Protection	Chemical goggles or safety glasses
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Other Protective Clothing or Equipment Work apron to avoid contact with personal clothing and skin.

Work/Hygienic Practices Keep area clean. Wash hands thoroughly after working with product.