

Material Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

1. Product and Company Identification

Product Name: HH-66 Vinyl Cement

Chemical Name: Thermoplastic Polyurethane Adhesive Blend/Compound

Manufacturer: R-H Products Co. Inc. 308 Old High Street Acton, MA USA 01720

Information Telephone Number: 1-978-897-8000

Emergency Telephone Number: 1-800-535-5053 INFOTRAC

Foreign Emergency Telephone Number: 1-352-323-3500 INFOTRAC

2. Composition/Information on Ingredients

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	By Weight % (optional)
Methyl Ethyl Ketone CAS# 78-93-3	300 ppm	300 ppm		45.5 %
Toluene CAS# 108-88-3	100 ppm	100 ppm	50 ppm Skin	19.4 %
Acetone CAS# 67-64-1	1000 ppm	750 ppm		21.5 %

3. Hazards Identification

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 irritation and possible dermatitis. Breathing – Overexposure may cause irritation to respiratory system. Extreme overexposure to vapors may result in central nervous system, liver and kidney damage. Ingestion – May cause gastrointestinal irritation.

Carcinogenicity	None (No)	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 irritate skin and may cause dermatitis. Breathing – Extreme overexposure to vapors 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.

4. First Aid Measures

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. Call a physician. Give water to victim. If vomiting occurs, prevent aspiration into lungs by lowering head between knees.

5. Fire Fighting Measures

Flash Point (Method Used)	-5.5C (22F) ASTM D-56 9/21/2008	Flammable Limits	LEL 1%	UEL 12%
Extinguishing Media	FOAM, DRY CHEMICAL, CO ₂			
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.			

6. Accidental Release Measures

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.

7. Handling and Storage

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

8. Exposure Control/Personal Protection

Respiratory Protection (*Specify Type*) If exposure exceeds occupational exposure limits use a NIOSH approved respirator to prevent overexposure. Per 29 CFR 1910.134 CCROV or SA types recommended.

Ventilation	Local Exhaust	Should be used to maintain exposure below TLV(s)	Special	Explosion proof ventilation maybe required to control vapor concentrations.
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	Mechanical (<i>General</i>)	Should be used to maintain exposure below TLV(s)	Other	N/D
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Protective Gloves	Impervious gloves; (for Solvent)	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.

9. Physical and Chemical Properties

Boiling Point	Acetone (Component)	132 ⁰ F	Specific Gravity (H ₂ O = 1)	Approx. .88
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Vapor Pressure (mm Hg) at 68 ⁰ F	Not established	Melting Point	N/D
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Vapor Density (AIR = 1)	Heavier	Evaporation Rate (Butyl Acetate = 1)	Slower
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Solubility in Water	Insoluble in water
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Appearance and Odor Normal Physical State: Clear Liquid with Strong Aromatic Odor/sharp mint like fragrance

10. Stability and Reactivity

Stability	Unstable		Conditions to Avoid
	Stable	X	N/A

Incompatibility (*Materials to Avoid*) Oxidizing Agents

Hazardous Decomposition or Byproducts CO₂ and CO when subjected to flames or excessive heat

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

11. Toxicological Information

Route(s) of Entry: Skin contact, inhalation, eye contact and ingestion. Irritant. No other data.

12. Ecological Information

No data available

13. Disposal Considerations

Waste Disposal Method

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

U.S. E.P.A. Hazardous Waste Number: D001 (Ignitable) (MEK -1/91 D:035)

14. Transport Information

DOT Info: UN1133 ADHESIVES 3 PGII

UN1133 ADHESIVES 3 PGII LTD.QTY. (1.3gal)

(HH-66 Vinyl Cement/Adhesive NOI Ltd.Qty.) description used when shipped by ground freight on bill of lading

IMO Information: see US DOT above.

ERG #128

No Hazardous Material bill of lading with Proper Shipping Name or ID Number marking is required when packaging is marked with a surface LQ label and is transported by ground mode.

Limited Quantity packaging –per section 172.102 sub 149, inner packaging 5 liter / 1.3 gal ; under 66 lbs gross.

Limited Quantity frees shippers from 24 hr. emergency contact regulations.

15. Regulatory Information

Federal and State and Other regulations:

Toluene and Methyl Ethyl Ketone are subject to the reporting requirements of section 313 of SARA Title III

California Prop. 65: WARNING! This product contains Toluene, a chemical known to the state of California to cause birth defects or other reproductive harm.

TASCA 8(b) inventory: all components are listed.

Components only are listed under various state RTK and reporting lists.

OSHA: Hazardous by definition in Hazard Communication Standard (29 CFR 1910.1200)
EINECS: Components are on the European Inventory of Existing Commercial Chemical Substances
WHMIS (Canada) Class B-2(flash point) and Class D-2B (toxic)
DSCCL (EEC) Components listed as R11 Highly flammable, R36/37 Irritating to eyes and respiratory system, S2 Keep out of reach of children, S16 Keep away from sources of ignition-No smoking, S26-In case of contact with eyes, rinse immediately with plenty of water and seek medical advise.

16. Other Information

Regulated VOC's by weight 64.9% - 4.55 lbs/gal - 544 g/l

HMIS Ratings: Health-1; Flammability-3; Reactivity-0 Key- 4 Extreme, 3 High, 2 Moderate, 1 Slight

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

Dated May 9, 2014

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