HH-66 Vinyl Cement	
Safety Data Sheet	
According To Federal Register / Vol. 77, No. 58 / Mon Revision Date: 01/02/2018 Date	day, March 26, 2012 / Rules And Regulations of issue: 01/02/2018 Supersedes Date: 01/06/2017 Version: 1.0
SECTION 1: IDENTIFICATION	
1.1. Product Identifier	
Product Form: Mixture	
Product Name: HH-66 Vinyl Cement	
Synonyms: Thermoplastic Polyureth	
	uct: No additional information available
	phone of the Responsible Party
Company RH Products Co., Inc.	
308 Old High Street	
Acton, MA USA 01720	
Information Telephone Number: 1-9	78-897-8000
1.4. Emergency Telephone N	
Emergency Number	: 1-800-535-5053 INFOTRAC; 1-352-323-3500 INFOTRAC International
SECTION 2: HAZARDS IDENTIFIC	
2.1. Classification of the Subs	tance or Mixture
Classification (GHS-US)	
Flam. Liq. 2 H225	
Eye Irrit. 2A H319	
Repr. 2 H361	
STOT SE 3 H336	
STOT RE 2 H373 2.2. Label Elements	
GHS-US Labeling	
Hazard Pictograms (GHS-US)	
	GH502 GH507 GH508
Signal Word (GHS-US)	: Danger
Hazard Statements (GHS-US)	: H225 - Highly flammable liquid and vapor.
	H319 - Causes serious eye irritation.
	H336 - May cause drowsiness or dizziness. H361 - Suspected of damaging fertility or the unborn child.
	H373 - May cause damage to organs through prolonged or repeated exposure.
Precautionary Statements (GHS-US)	: P201 - Obtain special instructions before use.
	P202 - Do not handle until all safety precautions have been read and understood.
	P210 - Keep away from heat, hot surfaces, open flames, sparks No smoking.
	P233 - Keep container tightly closed.
	P240 - Ground/bond container and receiving equipment.
<u>.</u>	P241 - Use explosion-proof electrical, lighting, ventilating equipment.
	P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge.
	P245 - Take precautionary measures against static discharge. P260 - Do not breathe vapors, mist, spray.
	P264 - Wash hands, forearms, and exposed areas thoroughly after handling.
	P271 - Use only outdoors or in a well-ventilated area.
	P280 - Wear eye protection, protective clothing, protective gloves.
	P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated
	clothing. Rinse skin with water/shower.
	P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
	comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing.
	P308+P313 - If exposed or concerned: Get medical advice/attention.
	P312 - Call a poison center if you feel unwell.
	P337+P313 - If eye irritation persists: Get medical advice/attention.
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P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂) to extinguish. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P235+P405 - Keep cool. Store locked up.

P501 - Dispose of contents/container according to local, regional, national, and international regulations.

2.3. Other Hazards

No additional information available

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1. Substance
- Not applicable

3.2. Mixture

Name	Product Identifier	%	Classification (GHS-US)
Methyl ethyl ketone	(CAS No) 78-93-3	44	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Acetone	(CAS No) 67-64-1	34	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336
Proprietary Component	Proprietary*	14.1	Not classified
Toluene	(CAS No) 108-88-3	7.9	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 3, H412

*The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret. Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid Measures After Inhalation: Using proper respiratory protection, immediately move the exposed person to fresh air. Assure fresh air breathing. Call a physician if symptoms occur.

First-aid Measures After Skin Contact: Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

First-aid Measures After Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

First-ald Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: Causes serious eye irritation. Vapors may cause drowsiness and dizziness.

Symptoms/Injuries After Inhalation: High concentration of vapours may induce: headache, dizziness, drowsiness, nausea and vomiting.

Symptoms/Injuries After Skin Contact: Repeated exposure may cause skin dryness or cracking.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: May cause damage to organs through prolonged or repeated exposure. May cause damage to central nervous system, liver, and kidneys. Suspected of damaging fertility or the unborn child.

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4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Highly flammable liquid and vapor.

Explosion Hazard: May form flammable/explosive vapor-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Reactivity: Reacts violently with oxidants causing fire and explosion hazard.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. Do not get water inside containers. Do not apply water stream directly at source of leak. Fight fire from safe distance and protected location.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. **Other Information:** Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use special care to avoid static electric charges. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Do not get in eyes, on skin, or on clothing. Do not breathe vapour or mist.

6.1.1. For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area. Eliminate ignition sources. Stop leak if safe to do so.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. Use only non-sparking tools.

6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see item 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: Handle empty containers with care because residual vapors are flammable.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Proper grounding procedures to avoid static electricity should be followed.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place.

Incompatible Products: Strong acids. Strong bases. Strong oxidizers.

7.3. Specific End Use(s) No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

	trol Parameters	
Toluene (108	3-88-3)	
USA ACGIH	ACGIH TWA (ppm)	20 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	375 mg/m ³
USA NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	560 mg/m ³
USA NIOSH	NIOSH REL (STEL) (ppm)	150 ppm
USA IDLH	US IDLH (ppm)	500 ppm

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A REAL PROPERTY AND A REAL		
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm
Acetone (67-	64-1)	
USA ACGIH	ACGIH TWA (ppm)	500 ppm
USA ACGIH	ACGIH STEL (ppm)	750 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	590 mg/m ³
USA NIOSH	NIOSH REL (TWA) (ppm)	250 ppm
USA IDLH	US IDLH (ppm)	2500 ppm (10% LEL)
USA OSHA	OSHA PEL (TWA) (mg/m³)	2400 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
Methyl ethyl	ketone (78-93-3)	
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	300 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	590 mg/m³
USA NIOSH	NIOSH REL (TWA) (ppm)	200 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	885 mg/m³
USA NIOSH	NIOSH REL (STEL) (ppm)	300 ppm
USA IDLH	US IDLH (ppm)	3000 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	590 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm
0.2 Evn	ocura Controla	

8.2. Exposure Controls

Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Gas detectors should be used when flammable gases/vapors may be released. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits indicated above. All electrical equipment should comply with the National Electric Code. Ensure all national/local regulations are observed.

Personal Protective Equipment

: Full protective flameproof clothing. Protective goggles. Gloves. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothin	ng
Hand Protection	
Eye Protection	
Skin and Body Protection	
Respiratory Protection	

- Wear fire/flame resistant/retardant clothing.Wear chemically resistant protective gloves.
- : Chemical goggles or safety glasses.
- : Wear suitable protective clothing.
- Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of vapor or mist are expected to exceed exposure limits.
 When using, do not eat, drink or smoke.

Other Information : When using, do SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemica	l Properties
Physical State	: Liquid
Appearance	: Clear
Odor	: Strong Aromatic Odor/sharp mint like fragrance
Odor Threshold	: No data available
рН	: No data available
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	No data available
Boiling Point	: > 35 °C (95.00 °F)
Flash Point	-14 °C ASTM D-56 (6.80 °F)
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Flammability (solid, gas)	No data available

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Vapor Pressure	: No data available
Relative Vapor Density at 20 °C	: >1 (heavier than air)
Relative Density	: 0.88 (water = 1)
Solubility	: Insoluble in water.
Partition Coefficient: N-octanol	/water : No data available
Viscosity	: No data available
Lower Flammable Limit	: 1%
Upper Flammable Limit	: 12 %
9.2. Other Information	
VOC content	: 51.9 % (3.59 lbs/gal or 430 g/l)
SECTION 10: STABILITY ANI	
10.1. Reactivity: Reacts viol	lently with oxidants causing fire and explosion hazard.
10.2. Chemical Stability: Sta	able under recommended handling and storage conditions (see section 7).
10.3. Possibility of Hazardou	s Reactions: Hazardous polymerization will not occur.
10.4. Conditions to Avoid:	Direct sunlight. Extremely high or low temperatures. Open flame. Ignition sources.
10.5. Incompatible Materials 10.6. Hazardous Decomposit	Strong acids. Strong bases. Strong oxidizers.
	ion Products: Carbon oxides (CO, CO ₂).
SECTION 11: TOXICOLOGIC	에서는 또한 것은
11.1. Information On Toxic	cological Effects
Acute Toxicity: Not classified	
Toluene (108-88-3)	
LD50 Oral Rat	5580 mg/kg
LD50 Dermal Rabbit	8390 mg/kg
ATE (Vapors)	25.70 mg/l/4h
Acetone (67-64-1)	
LD50 Oral Rat	5800 mg/kg
LD50 Dermal Rabbit	15688 mg/kg
LC50 Inhalation Rat	44 g/m ³
Methyl ethyl ketone (78-93-3)	
LD50 Oral Rat	2054 mg/kg
LD50 Dermal Rat	> 10 ml/kg
LC50 Inhalation Rat	23500 mg/m ³ (Exposure time: 8 h)
Skin Corrosion/Irritation: Not cla	
Serious Eye Damage/Irritation: (Respiratory or Skin Sensitization	
Germ Cell Mutagenicity: Not class	
Carcinogenicity: Not classified	331160
Toluene (108-88-3)	
IARC group	3
	d of damaging fertility or the unborn child.
Specific Target Organ Tovicity (C	ingle Exposure): May cause drowsiness or dizziness.
Aspiration Hazard: Not classified	epeated Exposure): May cause damage to organs through prolonged or repeated exposure.
vomiting.	ion: High concentration of vapours may induce: headache, dizziness, drowsiness, nausea and
	ntact: Repeated exposure may cause skin dryness or cracking.
Symptoms/Injuries After Eve Co	ntact: Causes serious eye irritation.
Symptoms/Injuries After Ingestio	on: Ingestion is likely to be harmful or have adverse effects.
Chronic Symptoms: May cause di	amage to organs through prolonged or repeated exposure. May cause damage to central
nervous system, liver, and kidney	s. Suspected of damaging fertility or the unborn child.
ECTION 12: ECOLOGICAL IN	FORMATION
12.1. Toxicity	
Toluene (108-88-3)	
	15.22 - 19.05 mg/l (Exposure time: 96 h - Species: Pimenhales prometas (flow-through)
EC50 Daphnia 1	5.46 - 9.83 mg/l (Exposure time: 48 h - Species: Danhnia magna [Static1]
	15.22 - 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) 5.46 - 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

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LC 50 Fish 2	12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])		
EC50 Daphnia 2	11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)		
NOEC chronic crustacea	0.74 mg/l (Ceriodaphnia dubia)		
Acetone (67-64-1)			
LC50 Fish 1	4144.846 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)		
EC50 Daphnia 1	1679.66 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])		
LC 50 Fish 2	6210 (6210 - 8120) mg/l (Exposure time: 96 h - Species: Pimephales promelas (static))		
EC50 Daphnia 2	12600 (12600 - 12700) mg/l (Exposure time: 48 h - Species: Daphnia magna)		
Methyl ethyl ketone (78-93-			
LC50 Fish 1	3130 (3130 - 3320) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])		
EC50 Daphnia 1	520 mg/l (Exposure time: 48 h - Species: Daphnia magna)		
EC50 Daphnia 2	5091 mg/l (Exposure time: 48 h - Species: Daphnia magna)		
12.2. Persistence and D			
Acetone (67-64-1)	ty Roadily hiddegradable in water		
Persistence and Degradabilit			
12.3. Bioaccumulative f	rotential		
Toluene (108-88-3)			
Log Pow	2.65		
Acetone (67-64-1)			
BCF fish 1	0.69		
Log Kow	-0.24		
Methyl ethyl ketone (78-93-	3)		
Log Pow	0.29		
12.4. Mobility in Soil N	o additional information available		
12.5. Other Adverse Eff	ects		
Other Information	: Avoid release to the environment.		
SECTION 13: DISPOSAL O	CONSIDERATIONS		
13.1. Waste treatment			
	dations: Dispose of waste material in accordance with all local, regional, national, and international		
regulations.			
	ndle empty containers with care because residual vapors are flammable. RCRA Waste Number: D001		
SECTION 14: TRANSPOR			
14.1. In Accordance with			
Proper Shipping Name	: ADHESIVES containing a flammable liquid : 3		
Hazard Class	: 3 : UN1133		
Identification Number Label Codes	: 3		
	•		
Packing Group	: 1		
ERG Number	: 128		
14.2. In Accordance with			
Proper Shipping Name	: ADHESIVES		
Hazard Class	: 3		
Identification Number	: UN1133		
Packing Group			
Label Codes	: 3		
EmS-No. (Fire)	: F-E		
EmS-No. (Spillage)	: S-D		
MFAG Number	: 127		



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ERG Code (IATA) : 3L	
SECTION 15: REGULATORY INFORMATION	
15.1 US Federal Regulations	
HH-66 Vinyl Cement	
SARA Section 311/312 Hazard Classes	Fire hazard
	Immediate (acute) health hazard
	Delayed (chronic) health hazard
Toluene (108-88-3)	
Listed on the United States TSCA (Toxic Substances Con	ntrol Act) inventory
Listed on United States SARA Section 313	in or need inventory
RQ (Reportable quantity, section 304 of EPA's List of L	Lists) : 1000 lb
SARA Section 313 - Emission Reporting	1.0 %
Acetone (67-64-1)	
Listed on the United States TSCA (Toxic Substances Cor	ntrol Act) inventory
	a substance that is the subject of a Section 4 test rule under TSCA.
Methyl ethyl ketone (78-93-3)	substance that is the subject of a Section 4 test full under TSCA.
isted on the United States TSCA (Toxic Substances Cor	atral Ast) investore
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
	Fire hazard
Proprietary Component	
Listed on the United States TSCA (Toxic Substances Cor	atrol Act) inventory
15.2 US State Regulations	
Toluene (108-88-3)	
U.S California - Proposition 65 - Developmental	
Toxicity	WARNING: This product contains chemicals known to the State of California to cause birth defects.
Toluene (108-88-3)	Camornia to cause birth defects.
U.S Massachusetts - Right To Know List	
U.S New Jersey - Right to Know Hazardous Substance	1 Tak
J.S Pennsylvania - RTK (Right to Know) - Environment	
J.S Pennsylvania - RTK (Right to Know) - Environmen	
Acetone (67-64-1)	
J.S Massachusetts - Right To Know List	
J.S New Jersey - Right to Know Hazardous Substance	list
J.S Pennsylvania - RTK (Right to Know) - Environment	
J.S Pennsylvania - RTK (Right to Know) - Environment J.S Pennsylvania - RTK (Right to Know) List	
Methyl ethyl ketone (78-93-3) J.S Massachusetts - Right To Know List	
J.S New Jersey - Right to Know Hazardous Substance	l ict
J.S Pennsylvania - RTK (Right to Know) - Environment	tal Hazard List
J.S Pennsylvania - RTK (Right to Know) List	נמו וומצמו ט בוזנ
	IG DATE OF PREPARATION OR LAST REVISION
	IG DATE OF PREPARATION OR LAST REVISION
Revision Date : 01/02/2018	
Other Information : This document has been prepa	red in accordance with the SDS requirements of the OSHA Hazard
Communication Standard 29 CF	FR 1910.1200.
iHS Full Text Phrases:	
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment - Chronic Hazard Category 3
Asp. Tox. 1	Aspiration hazard Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 2	Flammable liquids Category 2
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2

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STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H401	Toxic to aquatic life
H412	Harmful to aquatic life with long lasting effects

The information above is believed to be accurate and represents the information currently available to us. We however, make no warranty of merchantability or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from its use.

SDS US (GHS HazCom)