

Product Code: 550-0029-1
Product Name: GEM CLEAR HC FLAT CONV VARNISH (1G)

GEMINI INDUSTRIES, INC., 2300 HOLLOWAY DRIVE, EL RENO, OK 73036
24-Hour Emergency (Spill, Leak, Exposure or Accident): INFOTRAC 800-535-5053 Outside USA, Call Collect 1-352-323-3500
24-Hour Emergency HAZMAT Response and MSDS help: EMI 800-510-8510

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

(SEE TOP OF PAGE)

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT/EXPOSURE LIMITS	CAS#
SYNTHETIC RESIN 689	MIXTURE 689
METHYL N-PROPYL KETONE; 200 ppm	
n-BUTYL ACETATE; 150 ppm	
XYLENE; 100 ppm	
ETHYL BENZENE; 100 ppm	
TOLUENE; 600 ppm, 50 ppm	
ISOBUTYLATED UREA FORMALDEHYDE RESIN	MIXTURE 1349
Isobutanol 100 ppm TWA/ceiling OSHA 50ppm ACGIH	
Xylene 100ppm TWA/ceiling OSHA/ACGIH 150ppm STEL ACGIH	
Formaldehyde .75ppm OSHA 2ppm STEL OSHA .3ppm (ceiling) ACGIH	
VM&P NAPHTHA	68410-96-8
OSHA: NONE	
NIOSH: 350 MILLIGRAMS PER CUBIC METER-TWA	
NIOSH: 1800 MILLIGRAMS PER CUBIC METER-CEILING	
RESIN	PROPRIETARY7
BUTANOL	71-36-3
OSHA PEL: 100ppm TWA	
ACGIH TLV 50ppm	
n-BUTYL ACETATE	123-86-4
BUTYL ACETATE ACGIH 150ppm TWA, 200ppm STEL	
BUTYL ACETATE OSHA 150ppm TWA, 200ppm STEL	
ISOBUTYL ALCOHOL	78-83-1
MELAMINE RESIN	MIXTURE149
FORMALDEHYDE: OSHA/ACGIH 1ppm, OSHA NTP 2ppm STEL	
RESIN	MIXTURE993
XYLENE	1330-20-7
OSHA: 100 PPM PEL-TWA	
NIOSH: 100 PPM PEL-TWA	
DUPLICATING FLUID	MIX
ETHANOL: TWA OSHA 1000 ppm, TLV 1000ppm	
N-PROPYL ACETATE: TWA OSHA 200ppm, TLV ACGIH 200ppm	
ISOPROPANOL: 400 ppm, 400ppm	

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AROMATIC HYDROCARBON MIXTURE	MIXTURE 25
TRIMETHYL BENZENE: OSHA PEL 25ppm, ACGIH 25ppm	
XYLENES: OSHA PEL 100ppm , OSHA STEL 150ppm, ACGIH 100ppm, STEL 150ppm	
CUMENE: OSHA PEL 50ppm, ACGIH TLV 50ppm	
ETHANOL	64-17-5
OSHA: 1000 PPM PEL-TWA	
NIOSH: 1000 PPM PEL-TWA	
TOLUENE	108-88-3
OSHA PEL: 200ppm	
ACGIH TLV 50ppm	
AROMATIC HYDROCARBON	64742-95-6
METHYL PROPYL KETONE	107-87-9
ETHYLBENZENE	100-41-4
1,2,4-TRIMETHYLBENZENE	95-63-6
ISOPROPYL ALCOHOL	
400ppm TWA8 ACGIH, 983 mg/m3 TWA8 ACGIH	
980mg/m3 TWA8 OSHA, 500ppM STEL OSHA	
FORMALDEHYDE	50-00-0
CUMENE	98-82-8

3. HAZARDS IDENTIFICATION

Flammable in a liquid state
 Vapor causes eye burns and skin irritation

Contains trace amounts of free formaldehyde
 Inhalation of formaldehyde vapors has caused cancer in tests using laboratory animals.

POTENTIAL HEALTH EFFECTS

SKIN:

Widespread contact with skin for several hours can cause harmful amounts of material to be absorbed.

INGESTION:

Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even asphyxiation.

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INHALATION:

High vapor concentrations or prolonged breathing of lower concentrations may result in damage to the liver, kidneys, lungs and blood forming organs.

4. FIRST AID MEASURES**EYES:**

Flush with lukewarm water for a minimum of 15 minutes. Seek medical attention immediately.

SKIN:

Remove contaminated clothing, wash area immediately with soap and water. See physician if irritation persists.

INGESTION:

Rinse mouth immediately. Drink 1 or 2 glasses of water to dilute. Do NOT induce vomiting. Contact physician or poison control center immediately.

INHALATION:

Remove exposed individual to fresh air and assist breathing if necessary. Seek immediate medical attention.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASSIFICATION: CLASS 1B FLAMMABLE

LOWEST FLASH POINT: 39.99F

METHOD:

DOT: FLAMMABLE LIQUID

FLAMMABLE LIMITS:

LOWER FLAMMABLE LIMIT: 0

UPPER FLAMMABLE LIMIT: 12.6

EXTINGUISHING MEDIA: Alcohol Foam, CO2, Dry Chemical

The National Fire Protection Association Class B extinguisher is designed to extinguish NFPA Class 1B flammable liquid fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Do not apply to hot surfaces. Never use welding or cutting torch on or near container (even empty) because product (even residue) may ignite explosively. Liquid and vapor states of this substance are dangerous fire hazards and moderate explosion hazards when exposed to heat or flame.

FIREFIGHTING INSTRUCTIONS:

Clear fire area of unprotected personnel. Do not enter confined space without helmet, face shield, bunker coat, gloves, rubber boots and a positive pressure NIOSH-approved self-contained breathing apparatus. A water stream can scatter flames. A spray of water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

6. ACCIDENTAL RELEASE MEASURES

Stay upwind and away from spill or leak unless wearing appropriate protective equipment. Stop and/or contain discharge if it may be done safely. Keep all sources of ignition away. Ventilate area of spill. Use non-sparking tools for clean up. Cover with inert material to reduce

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fumes. Keep out of drains, sewer or waterways.
If large spill occurs, alert spill response teams. Contact fire authorities. Notify local health and pollution control agencies.

7. HANDLING AND STORAGE

HANDLING:

Bond and ground metal containers when transferring liquid. Avoid free fall of liquid in excess of a few inches. Personnel should avoid inhalation of vapors. Personal contact with the product should be avoided. Should contact be made, remove saturated clothing and flush affected skin areas with water. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid and/or solid), all hazard precautions given in this sheet must be observed.

STORAGE:

Keep product containers cool, dry and away from sources of ignition. Use and store this product with adequate ventilation. DO NOT SMOKE in or near storage areas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION:

PRIMARY ROUTES OF ENTRY: inhalation, skin contact, eyes, ingestion.

Use local exhaust as required to control vapor concentrations. Avoid prolonged or repeated breathing of vapors. If exposure exceeds TLV, use NIOSH-approved respirator to prevent overexposure.

SKIN PROTECTION:

Required for prolonged or repeated contact. Wear resistant gloves such as natural rubber, neoprene, buna N or nitrile. An apron should be worn to avoid skin contact.

EYE PROTECTION:

Wear splash proof goggles and face shield if there is a likelihood of contact with eyes.

HYGIENIC PRACTICES:

Wash hands thoroughly before eating or using restroom. Remove contaminated clothing immediately and do not wear again until it has been properly laundered.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 172F

MELTING POINT: N/A

VAPOR PRESSURE: N/A

VAPOR DENSITY: Heavier Than Air

SOLUBILITY IN WATER: N/A

SPECIFIC GRAVITY: .946

COATING VOC LB/GL: 4.5086 lb/gl

COATING VOC GM/LTR: 540 g/l

MATERIAL VOC LB/GL: 4.5086 lb/gl

MATERIAL VOC GM/LTR: 540 g/l

% VOLATILE BY VOLUME: 67.32%

EVAPORATION RATE: Faster than Butyl Acetate.

WEIGHT PER GALLON: 7.873 lb/gl

PH: N/A

ODOR: N/A

APPEARANCE: Liquid

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10. STABILITY AND REACTIVITY**CHEMICAL STABILITY:**

Stable Conditions to Avoid: high heat, sparks, flames.

INCOMPATIBILITY

Materials to Avoid: Strong oxidizing agents, strong alkalines, strong mineral acids.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxidation may produce carbon and nitrogen oxides.

HAZARDOUS POLYMERIZATION:

Will not occur.

11. TOXICOLOGICAL INFORMATION**CANCER INFORMATION:**

This product contains one or more reported carcinogens or suspected carcinogens which are noted NTP, IARC or OSHA-Z in the other limits recommended column

TERATOLOGY (BIRTH DEFECT) INFORMATION:

This product contains no reported or suspected teratogens.

REPRODUCTION INFORMATION:

Gaseous formaldehyde is classified as a Class B1 Probable Human Carcinogen by the IARC. Toluene is a chemical known to the state of California to cause birth defect or other reproductive harm. This product contains a chemical known to the State of California to cause cancer.

12. ECOLOGICAL INFORMATION**ECOLOGICAL INFORMATION:**

Uncontrolled release of the product may result in contamination of air, ground, waterways and/or sewers.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state and federal regulations.

14. TRANSPORT INFORMATION

DOT NUMBER: UN1263

15. REGULATORY INFORMATION

HMIS HAZARD INDEX: 4=SEVERE, 3=SERIOUS, 2=MODERATE, 1=SLIGHT, 0=LEAST
HEALTH: 2

FLAMMABILITY: 3

REACTIVITY: 0

PERSONAL PROTECTION: I

SECTION 313:

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372(Chemicals listed below constitute the specific percentage of product by weight. Chemicals that do not have a listed percentage comprise less than 1% of total product weight):

		% BY WT
* BUTANOL	71-36-3	10
* XYLENE	1330-20-7	4
* TOLUENE	108-88-3	3
* ETHYLBENZENE	100-41-4	1
* 1,2,4-TRIMETHYLBENZENE	95-63-6	1
* FORMALDEHYDE	50-00-0	
* CUMENE	98-82-8	

16. DISCLAIMER:

The following supersedes any provision contained in the forms, letters and papers of your

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