

GHS SAFETY DATA SHEET 311 PVC

Low VOC SOLVENT CEMENT FOR PVC PLASTIC PIPE

SECTION 1 – PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: 311 Low VOC Solvent Cement for PVC Plastic Pipe

SUPPLIER: HP ADHESIVES LIMITED

PRODUCT USE: Solvent Cement for PVC Plastic Pipe ADDRESS: G-11 Unique House, Chakala Road Andheri (E) Mumbai 400099 INDIA

T: +91 22 2932 4739 F: +91 22 2834 9596

MEDICAL: Tel. 800.451.8346, 760.602.8703 3E Company (International)

SECTION 2 – HAZARDIOUS IDENTIFICATION

GHS CLASSIFICATION:

Health

Acute Toxicity: Category 4 Skin Irritation: Category 3 Skin Sensitization: NO Category 2 Eve:

Environmental Acute Toxicity: None Known Chronic Toxicity: None Known

Physical

Flammable Liquid: Category 2

Hazard Statements

EMERGENCY: Transportation: CHEMTEL Tel. 800.255-3924, 813-248-0585 (International)

H225: Highly flammable liquid and vapor H319: Causes serious eye irritation H335: May cause respiratory irritation H336: May cause drowsiness or dizziness H351: Suspected of causing cancer EUH019: May form explosive peroxides

GHS LABEL:







Single Word: Dange

WHMIS CLASSIFICATION: CLASS B, DIVISION 2 CLASS D, DIVISION 1B

Precautionary Statements

P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking

P261: Avoid breathing dust/fume/gas/mist/vapors/spray

P280: Wear protective gloves/protective clothing/eye protection/face protection

P337+P313: Get medical advice/attention

P403+P233: Store in a well ventilated place. Keep container tightly closed P501: Dispose of contents/container in accordance with local regulation

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CAS#	EINECS #	REACH	CONCENTRATION	
		LINEOS II	Pre-registration Number	% by Weight	
Tetrahydrofuran (THF)	109-99-9	203-726-8	05-2116297729-22-0000	40 – 50	
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	05-2116297728-24-0000	5 - 15	
Cyclohexanone	108-94-1	203-631-1	05-2116297718-25-0000	9 – 18	
Acetone	67-64-1	200-662-2	05-2116297713-35-0000	3 – 11	

All of the constituents of this adhesive product are listed on the TSCA inventory of chemical substances maintained by the US EPA, or are exempt from that listing. * Indicates this chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (40CFR372). # indicates that this chemical is found on Proposition 65's List of chemicals known to the State of California to cause cancer or reproductive toxicity.

SECTION 4 – FIRST AID MEASURES

Contact with eyes: Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice. Inhalation: Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice. Ingestion: Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately.

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

Acute symptoms and effects:

Inhalation: Severe overexposure may result in nausea, dizziness, headache. Can cause drowsiness, irritation of eyes and nasal passages.

Eye Contact: Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with

the liquid.

Skin Contact: Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.

Ingestion: May cause nausea, vomiting, diarrhea and mental sluggishness.

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Chronic (long-term) effects: Category 2 Carcinogen

SECTION 5 – FIREFIGHTING MEASURES

Suitable Extinguishing Media: Dry chemical powder, carbon dioxide gas, foam, Halon, water fog. **HMIS** NFPA 0-Minimal Unsuitable Extinguishing Media: Water spray or stream. Health 2 2 1-Slight Exposure Hazards: Inhalation and dermal contact Flammability 3 2-Moderate 3 Combustion Products: Oxides of carbon and smoke Reactivity O O 3-Serious Protection for Fire fighters: Self-contained breathing apparatus or full-face positive pressure airline masks. PPE В 4-Severe









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SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep away from heat, sparks and open flame. Provide sufficient ventilation, use explosion-proof exhaust ventilation

equipment or wear suitable respiratory protective equipment. Prevent contact with skin or eyes (see section 8). **Environmental Precautions:** Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course.

Methods for Cleaning up: Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel.

Materials not to be used for clean up: Aluminium or plastic containers

SECTION 7 – HANDLING AND STORAGE

Handling: Avoid breathing of vapor, avoid contact with eyes, skin and clothing. Keep away from ignition sources, use only electrically grounded handling

equipment and ensure adequate ventilation/fume exhaust hoods. Do not eat, drink or smoke while handling.

Storage: Store in ventilated room or shade below 44°C (110°F) and away from direct sunlight. Keep away from ignition sources and incompatible materials:

caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocyanates. Follow all precautionary information on container

label, product bulletins and solvent cementing literature.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL	OSHA PEL-Ceiling	CAL/OSH A PEL	CAL/OSHA Ceiling	CAL/OSH A STEL
EXPOSURE LIMITS:	Tetrahydrofuran (THF)	50 ppm	100 ppm	200 ppm	N/E	N/E	200 ppm	N/E	250 ppm
	Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	N/E	N/E	200 ppm	N/E	300 ppm
	Cyclohexanone	20 ppm	50 ppm	50 ppm	N/E	N/E	25 ppm	N/E	N/E
	Acetone	500 ppm	750 ppm	1000 ppm	N/E	N/E	500 ppm	3000 ppm	750 ppm

Engineering Controls: Use local exhaust as needed.

Monitoring: Maintain breathing zone airborne concentrations below exposure limits.

Personal Protective Equipment (PPE):

Avoid contact with eyes, wear splash-proof chemical goggles, face shield, safety glasses (spectacles) with brow guards and side shields, Eye Protection:

etc. as may be appropriate for the exposure.

Skin Protection: Prevent contact with the skin as much as possible. Butyl rubber gloves should be used for frequent immersion. Use of solvent-resistant

gloves or solvent-resistant barrier cream should provide adequate protection when normal adhesive application practices and

procedures are used for making structural bonds.

Respiratory Protection: Prevent inhalation of the solvents. Use in a well-ventilated room. Open doors and/or windows to ensure airflow and air changes. Use

local exhaust ventilation to remove airborne contaminants from employee breathing zone and to keep contaminants below levels listed above. With normal use, the Exposure Limit Value will not usually be reached. When limits approached, use respiratory protection

Flammability:

Flammability Limits:

Category 2

LEL: 1.1% based on Cyclohexanone

UEL: 12.8% based on Acetone

equipment.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Gray, heavy syrupy liquid

Odor: Odor Threshold: 0.88 ppm (Cyclohexanone) Ketone

pH:

-108.5°C (-163.3°F) Based on first melting component: THF 56°C (133°F) to 156°C (313°F) Melting/Freezing Point: **Boiling Range: Evaporation Rate:** >1.0 (BUAC = 1)

Boiling Point: 56°C (133°F) Based on first boiling component: Acetone

Flash Point: -20°C (-4°F) T.C.C. based on Acetone

Specific Gravity: 0.966 @23°C (73°F)

Solubility: Solvent portion soluble in water. Resin portion separates out.

Partition Coefficient n-Not Available Vapor Pressure: 190 mm Hg @ 20°C (68°F): Acetone octanol/water:

321°C (610°F) based on THF > 2.0 (Air = 1)Auto-ignition Temperature: Vapor Density: **Decomposition Temperature:** Not Applicable Other Data: Viscosity: Heavy bodied

VOC Content: When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: < 510 g/l.

SECTION 10 - STABILITY AND REACTIVITY

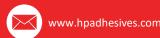
Stability:

Hazardous decomposition products: None in normal use. When forced to burn, this product gives off oxides of carbon and smoke.

Conditions to avoid: Keep away from heat, sparks, open flame and other ignition sources.

Incompatible Materials: Oxidizers, strong acids and bases, amines, ammonia









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SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicity: LD_{50} LC_{50} **Target Organs**

Inhalation 3 hrs. 21,000 mg/m3 (rat) STOT SE3 Tetrahydrofuran (THF) Oral: 2842 mg/kg (rat) Methyl Ethyl Ketone (MEK) Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit) Inhalation 8 hrs. 23,500 mg/m3 (rat) STOT SE3 Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit) Inhalation 4 hrs. 8,000 PPM (rat) Cyclohexanone

Acetone Oral: 5800 mg/kg (rat) Inhalation 50,100 mg/m3 (rat) STOT SE3

Synergistic Products Reproductive Effects Teratogenicity Mutagenicity **Embryotoxicity** Sensitization to Product Not Established Not Established Not Established Not Established Not Established Not Established

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: None Known

Mobility: In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of < 510 g/l.

Degradability: Not readily biodegradable

Bioaccumulation: Minimal to none.

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert.

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name: Adhesives **EXCEPTION for Ground Shipping**

Hazard Class: 3 **DOT Limited Quantity:** Up to 5L per inner packaging, 30 kg gross weight per package.

Secondary Risk: None **Consumer Commodity:** Depending on packaging, these quantities may qualify under DOT as "ORM-D".

Identification Number: UN 1133 **TDG INFORMATION** Packing Group: PG II TDG CLASS: FLAMMABLE LIQUID 3

Label Required: Class 3 Flammable Liquid **ADHESIVES** SHIPPING NAME:

Marine Pollutant: NO UN NUMBER/PACKING GROUP: UN 1133, PG II

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information: Highly Flammable, Irritant Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia

Symbols: F. Xi AICS, Korea ECL/TCCL, Japan MITI (ENCS)

Risk Phrases: R66: Repeated exposure may cause skin dryness or cracking R11: Highly flammable.

R36/37: Irritating to eyes and respiratory system. R67: Vapors may cause drowsiness and dizziness

Safety Phrases: S2: Keep out of the reach of children S26: In case of contact with eyes, rinse immediately with plenty of

> S9: Keep container in a well-ventilated place. water and seek medical advice.

S16: Keep away from sources of ignition. S33: Take precautionary measures against static discharges.

S25: Avoid contact with eyes.

SECTION 16 - OTHER INFORMATION

Specification Information:

Department issuing data sheet: HP ADHESIVES LIMITED Quality Control All ingredients are compliant with the requirements of the European

E-mail address: <qc@hpadhesives.com> Directive on RoHS (Restriction of Hazardous Substances).

Training necessary: Yes, training in practices and procedures contained in product literature.

Reissue date / reason for reissue: 4/7/2015 / Updated GHS Standard Format **Intended Use of Product:** Solvent Cement for PVC Plastic Pipe

This product is intended for use by skilled individuals at their own risk. The information contained herein is based on data considered accurate based on current state of knowledge and experience. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.





