GHS SAFETY DATA SHEET

335 Wet N Fast

Low VOC SOLVENT CEMENT FOR PVC PLASTIC PIPE



SECTION 1 – PRODUCT & COMPANY IDENTIFICATION PRODUCT NAME: 335 Wet N Fast 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)

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

SECTION 2 – HAZARDIOUS IDENTIFICATION GHS CLASSIFICATION: Health

| пеани | | | | |
|-------------------------------------|-------------------|--|--|--|
| Acute Toxicity: | Category 4 | | | |
| Skin Irritation: | Category 3 | | | |
| Skin Sensitization: | NO | | | |
| Eye: | Category 2 | | | |
| Environmental | | | | |
| Acute Toxicity: | None Known | | | |
| Chronic Toxicity: | None Known | | | |
| Physical | | | | |
| Flammable Liquid: | Category 2 | | | |
| | Hazard Statements | | | |
| H225: Highly flammable liquid | l 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:

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 Pre-registration Number | CONCENTRATION % by Weight |
|---------------------------|----------|-----------|----------------------------------|------------------------------|
| Tetrahydrofuran (THF) | 109-99-9 | 203-726-8 | 05-2116297729-22-0000 | 46 – 56 |
| Methyl Ethyl Ketone (MEK) | 78-93-3 | 201-159-0 | 05-2116297728-24-0000 | 4 - 17 |
| Acetone | 67-64-1 | 200-662-2 | 05-2116297713-35-0000 | 10 - 25 |

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 MEAS | URES |
|------------------------------|---|
| 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. |
| Chronic (long-term) effects: | Category 2 Carcinogen |
| | |

SECTION 5 – FIREFIGHTING MEASURES

| Suitable Extinguishing Media: Dry chemical powder, carbon dioxide gas, foam, Halon, water fog. | | | NFPA | 0-Minimal |
|--|--------------|---|------|------------|
| Unsuitable Extinguishing Media: Water spray or stream. | Health | 2 | 2 | 1-Slight |
| Exposure Hazards: Inhalation and dermal contact | Flammability | 3 | 3 | 2-Moderate |
| Combustion Products: Oxides of carbon and smoke | Reactivity | 0 | 0 | 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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sufficient ventilation, use explosion-proof exhaust ventilation



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

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.

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

equipment.

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

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

| Appearance: | Blue, medium syrupy liquid | | |
|--|--|---------------------------|----------------------------------|
| Odor: | Ketone | Odor Threshold: | 1 ppm (Acetone) |
| pH: | Not Applicable | | |
| Melting/Freezing Point: | -108.5°C (-163.3°F) Based on first melting component: THF | Boiling Range: | 56°C (133°F) to 80°C (176°F) |
| Boiling Point: | 56°C (133°F) Based on first boiling component: Acetone | Evaporation Rate: | >1.0 (BUAC = 1) |
| Flash Point: | -20°C (-4°F) T.C.C. based on Acetone | Flammability: | Category 2 |
| Specific Gravity: | 0.926 @23°C (73°F) | Flammability Limits: | LEL: 1.4% based on MEK |
| Solubility: | Solvent portion soluble in water. Resin portion separates out. | | UEL: 12.8% based on Acetone |
| Partition Coefficient n- octanol/water: | Not Available | Vapor Pressure: | 190 mm Hg @ 20°C (68°F): Acetone |
| Auto-ignition Temperature: | 321°C (610°F) based on THF | Vapor Density: | > 2.0 (Air = 1) |
| Decomposition Temperature: | Not Applicable | Other Data: Viscosity: | Medium bodied |
| VOC Content: | When applied as directed, per SCAQMD Rule 1168, Test Method | 316A,VOC content is: < 51 | 0 g/l. |

SECTION 10 - STABILITY AND REACTIVITY Stability: Hazardous decomposition products: Conditions to avoid: **Incompatible Materials:**

Stable None in normal use. When forced to burn, this product gives off oxides of carbon and smoke. Keep away from heat, sparks, open flame and other ignition sources. Oxidizers, strong acids and bases, amines, ammonia

| SECTION 11 - TOXICOLOGICAL INFORMATION | | | | | |
|--|---|------------------------|-------------------------|---|----------------------|
| Toxicity: | LD ₅₀ | | LC ₅₀ | Tar | get Organs |
| Tetrahydrofuran (THF) | Oral: 2842 mg/kg (rat) | Oral: 2842 mg/kg (rat) | | Inhalation 3 hrs. 21,000 mg/m3 (rat) STOT 5 | |
| Methyl Ethyl Ketone (MEK) | Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit) | | Inhalation 8 hrs. 23,50 | Inhalation 8 hrs. 23,500 mg/m3 (rat) STOT | |
| Acetone | Oral: 5800 mg/kg (rat) | | Inhalation 50,100 mg/ | 'm3 (rat) STC | T SE3 |
| Reproductive Effects | Teratogenicity | Mutagenicity | Embryotoxicity | Sensitization to Produc | Synergistic Products |
| Not Established | Not Established | Not Established | Not Established | Not Established | Not Established |



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| Ecotoxicity: Nore 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: In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of < 510 g/l. Section 13 - WASTE DISPOSAL CONSIDERATIONS Follow local and national regulations: Consumer Support Section 14 - TRANSPORT INFORMATION Proper Shipping Name: Adhesives Hazard Class: 3 Secondary Risk: None Identification Number: UN 1133 Packing Group: PSG II To G CLASS: FLAMMABLE LIQUID 3 Label Required: Class 3 Flammable Liquid Marine Pollutant: NO Section 15 - REGULATORY INFORMATION Precautionary Label Information: Fighty Planes: Scie Closs Risk Phrases: S2: Keep out of the reach of children S2: Keep out of the reach of children S2: Koold contact with eyes. S2: Koold contact with eyes. S2: Koold contact with eyes. S2: Keep out of the reach of children S2: Koold contact with eyes. S2: Koold contact with eyes. < | SECTION 12 - ECOLOGICAL INFORMATIO | DN | | | | | |
|--|---|---|--|--|--|--|--|
| Degradability: Not readily biodegradable Bioaccumulation: Not readily biodegradable Bioaccumulation: Section 13 - WASTE DISPOSAL CONSIDERATIONS Follow local and national regulations. Consult disposal expert. Section 14 - TRANSPORT INFORMATION Proper Shipping Name: Adhesives Hazard Class: 3 Secondary Risk: None Identification Number: UN 1133 Packing Group: PG II Label Required: Class 3 Flammable Liquid Marine Pollutant: NO EXCEPTION for Ground Shipping DOT Limited Quantity: Up to 5.1 performer packaging, these quantities may qualify under DOT as "ORM-D". TDG CLASS: Section 15 - REGULATORY INFORMATION Precautionary Label Information: Highly Flammable, Irritant F, Xi Ingredient Ustings: USA TSCA, Europe EINECS, Canada DSL, Australia Symbol: F, Xi Safety Phrases: S2: Keep out of the reach of children 59: Keep container in a well-ventiated place. S25: Avoid contact with eyes. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S33: Take precautionary measures against static discharges. S25: Avoid contact with eyes. Section 16 - OTHER INFORMATION S2 S2: Keep out of the reach of children 59: Keep avary from sources of ignition. S25: Avoid contact with eyes. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S33: Take precautionary measures against static discharges. S25: Avoid contact with eyes. Section 16 - OTHER INFORMATION HP ADHESIVES LIMITED Quality Control email address: All ingredients are compliant with the requirements of the European Directive o | Ecotoxicity: None Kno | None Known | | | | | |
| Bloaccumulation: Minimal to none. SECTION 13 - WASTE DISPOSAL CONSIDERATIONS Follow local and national regulations. Consult disposal expert. SECTION 14 - TRANSPORT INFORMATION Proper Shipping Name: Adhesives Hazard Class: 3 Secondary Kisk: None Identification Number: UN 1133 Packing Group: PG II Label Required: Class 3 Flammable Liquid Marine Pollutant: NO EXCEPTION for Ground Shipping DT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package. Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D". Marine Pollutant: NO TOG CLASS: IPPING NAME: UN NUMBER/PACKING GROUP: UN NUMBER/PACKING GROUP: Section 15 - REGULATORY INFORMATION Section 15 - REGULATORY INFORMATION Section 15 - OTHER INFORMATION Highly flammable, Irritant Section 16 - OTHER INFORMATION Ingredient sec compliant with the requirements of the European Section Information: Department issuing data sheet: Email address: Group data sheet: HP ADHESIVES LIMITED Quality Control All ingredients are compliant with the requirements of the European Directive on ROHS (Restriction of H | Mobility: In norma | In normal use, emission of volatile organic compounds (VOC's) to the air takes place, typically at a rate of < 510 g/l. | | | | | |
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| Follow local and national regulations. Consult disposal expert. SECTION 14 - TRANSPORT INFORMATION Proper Shipping Name: Adhesives Hazard Class: 3 Secondary Risk: Kone Identification Number: UN 1133 Packing Group: PG II Label Required: Class 3 Flammable Liquid Marine Pollutant: NO DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package. Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D". IDG LINE CLASS: SHIPPING NAME: UN NUMBER/PACKING GROUP: UN NUMBER/PACKING GROUP: SECTION 15 - CELOTACC, Langan MITI (ENCS) SECTION 15 - CELOTACC, Langan MITI (ENCS) SECTION 15 - CELOTACC, Langan MITI (ENCS) SECTION 16 - OTHER INFORMATION SECTION 16 - OTHER INFORMATION SECTION 16 - OTHER INFORMATION | | | | | | | |
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| Marine Pollutant: NO UN NUMBER/PACKING GROUP: UN 1133, PG II SECTION 15 - REGULATORY INFORMATION Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS) Risk Phrases: F, Xi Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS) Safety Phrases: R11: Highly flammable. R66: Repeated exposure may cause skin dryness or cracking R67: Vapors may cause drowsiness and dizziness Safety Phrases: S2: Keep out of the reach of children S9: Keep container in a well-ventilated place. S16: Keep away from sources of ignition. S25: Avoid contact with eyes. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S33: Take precautionary measures against static discharges. Section 16 - OTHER INFORMATION Pepartment issuing data sheet: e-mail address: HP ADHESIVES LIMITED Quality Control All ingredients are compliant with the requirements of the European Directive on ROHS (Restriction of Hazardous Substances). | Packing Group: PG II | TDG CLASS: | | | | | |
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| 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: R11: Highly flammable. R66: Repeated exposure may cause skin dryness or cracking 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. S16: Keep away from sources of ignition. S33: Take precautionary measures against static discharges. SECTION 16 - OTHER INFORMATION Specification Information: Pepartment issuing data sheet: HP ADHESIVES LIMITED Quality Control All ingredients are compliant with the requirements of the European E-mail address: All ingredients are compliant with the requirements of Hazardous Substances). | Marine Pollutant: NO | UN NUMBER/PACKING GROUP: | UN 1133, PG II | | | | |
| 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: R11: Highly flammable. R66: Repeated exposure may cause skin dryness or cracking Safety Phrases: S2: Keep out of the reach of children S26: In case of contact with eyes, rinse immediately with plenty of Safety Phrases: S2: Keep out of the reach of children S26: In case of contact with eyes, rinse immediately with plenty of Safety Phrases: S2: Keep out of the reach of children S26: In case of contact with eyes, rinse immediately with plenty of 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. S33: Take precautionary measures against static discharges. S25: Avoid contact with eyes. S33: Take precautionary measures against static discharges. Specification Information: Department issuing data sheet: HP ADHESIVES LIMITED Quality Control All ingredients are compliant with the requirements of the European E-mail address: Oirective on ROHS (Restriction of Hazardous Substances). Directive on ROHS (Restriction of Hazardous Substances). | | · | , | | | | |
| Symbols: F, Xi AICS, Korea ECL/TCCL, Japan MITI (ENCS) Risk Phrases: R11: Highly flammable. R66: Repeated exposure may cause skin dryness or cracking Safety Phrases: S2: Keep out of the reach of children S26: In case of contact with eyes, rinse immediately with plenty of Sy Keep container in a well-ventilated place. S16: Keep away from sources of ignition. S23: Take precautionary measures against static discharges. S25: Avoid contact with eyes. S33: Take precautionary measures against static discharges. Specification Information: Department issuing data sheet: HP ADHESIVES LIMITED Quality Control All ingredients are compliant with the requirements of the European Department issuing data sheet: HP ADHESIVES LIMITED Quality Control All ingredients are compliant with the requirements of the European E-mail address: Oprice on RoHS (Restriction of Hazardous Substances). | SECTION 15 - REGULATORY INFORMATIO | ON | | | | | |
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| S16: Keep away from sources of ignition. S25: Avoid contact with eyes. S33: Take precautionary measures against static discharges. SECTION 16 - OTHER INFORMATION Secification Information: Department issuing data sheet: HP ADHESIVES LIMITED Quality Control <qc@hpadhesives.com> All ingredients are compliant with the requirements of the European Directive on RoHS (Restriction of Hazardous Substances).</qc@hpadhesives.com> | Salety Phrases. | • | | | | | |
| 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).</qc@hpadhesives.com> | | • • | | | | | |
| 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).</qc@hpadhesives.com> | | | 555. Take precautionary measures against static discharges. | | | | |
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| Department issuing data sheet:HP ADHESIVES LIMITED Quality ControlAll ingredients are compliant with the requirements of the EuropeanE-mail address: <qc@hpadhesives.com>Directive on RoHS (Restriction of Hazardous Substances).</qc@hpadhesives.com> | SECTION 16 - OTHER INFORMATION | • | | | | | |
| E-mail address: <qc@hpadhesives.com> Directive on RoHS (Restriction of Hazardous Substances).</qc@hpadhesives.com> | Specification Information: | | | | | | |
| E-mail address: <qc@hpadhesives.com> Directive on RoHS (Restriction of Hazardous Substances).</qc@hpadhesives.com> | • | HP ADHESIVES LIMITED Quality Control All ingred | lients are compliant with the requirements of the European | | | | |
| | | | | | | | |
| Training necessary. Tes, training in practices and procedures contained in product interature. | Training necessary: | Yes, training in practices and procedures contained in | , | | | | |
| Reissue date / reason for reissue: 4/7/2015 / Updated GHS Standard Format | U | | | | | | |
| Intended Use of Product: Solvent Cement for PVC Plastic Pipe | - | | | | | | |

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