IPEX

GHS SAFETY DATA SHEET

IPEX 4 CLR Low VOC General Purpose Cement for PVC Plastic Pipe Supersedes: JAN 2012

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: IPEX 4 CLR Low VOC General Purpose Cement for PVC Plastic Pipe

PRODUCT USE: Low VOC Solvent Cement for PVC Plastic Pipe

SUPPLIER: IPFX Inc. MANUFACTURER: **IPS** Corporation

> 17109 South Main Street, Gardena, CA 90248-3127 807 Pharmacy Avenue

Scarborough, Ontario M1L 3K2, CAN P.O. Box 379, Gardena, CA 90247-0379

Tel. 1-310-898-3300

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

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Health Environmental Physical Acute Toxicity: Acute Toxicity: None Known Flammable Liquid Category 2 Category 4 Category 3 Skin Irritation: Chronic Toxicity: None Known

Skin Sensitization: NO Category 2E

OR



Signal Word:

WHMIS CLASSIFICATION:

CLASS B, DIVISION 2

Date Revised: JUN 2013

GHS LABEL:

Danger

Hazard Statements

H225: Highly flammable liquid and vapor

H319: Causes serious eve irritation

H332: Harmful if inhaled

H335: May cause respiratory irritation H336: May cause drowsiness or dizziness EUH019: May form explosive peroxides

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

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

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

CONCENTRATION EINECS # REACH Pre-registration Number % by Weight Tetrahydrofuran (THF) 109-99-9 203-726-8 05-2116297729-22-0000 25 - 50 Methyl Ethyl Ketone (MEK) 78-93-3 201-159-0 05-2116297728-24-0000 5 - 36 108-94-1 203-631-1 05-2116297718-25-0000 15 - 30 Cyclohexanone

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 eves: 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

SECTION 5 - FIREFIGHTING MEASURES

HMIS NFPA 0-Minimal Suitable Extinguishing Media: Dry chemical powder, carbon dioxide gas, foam, Halon, water fog. 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, hydrogen chloride and smoke 0 0 3-Serious Reactivity В 4-Severe

Protection for Firefighters: Self-contained breathing apparatus or full-face positive pressure airline masks.

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 Aluminum or plastic containers

Materials not to be used for clean up:

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.

Store in ventilated room or shade below 44°C (111°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

EXPOSURE LIMITS:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL:
	Tetrahydrofuran (THF)	50 ppm	100 ppm	200 ppm	
	Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	
	Cyclohexanone	20 ppm	50 ppm	50 ppm	

Engineering Controls:

Respiratory Protection:

Use local exhaust as needed

Monitoring:

Maintain breathing zone airborne concentrations below exposure limits.

Personal Protective Equipment (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.

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 equipment.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, medium syrupy liquid

Odor: Ketone Odor Threshold: 0.88 ppm (Cyclohexanone) Not Applicable pH:

Melting/Freezing Point: -108.5°C (-163.3°F) Based on first melting component: THF

Boiling Range: 66°C (151°F) to 156°C (313°F) **Boiling Point:** 66°C (151°F) Based on first boiling component: THF **Evaporation Rate:** > 1.0 (BUAC = 1)

Flash Point: -20°C (-4°F) TCC based on THF Flammability: Category 2 Specific Gravity: Flammability Limits:

0.9611 @23°C (73°F) LEL: 1.1% based on Cyclohexanone Solvent portion soluble in water. Resin portion separates out. UEL: 11.8% based on THF Solubility:

Partition Coefficient n-octanol/water: Not Available Vapor Pressure: 129 mm Hg @ 20°C (68°F)based on THF

Auto-ignition Temperature: 321°C (610°F) based on THF Vapor Density: >2 (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: < 510 g/l.

SECTION 10 - STABILITY AND REACTIVITY

Stability: Stable

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

SECTION 11 - TOXICOLOGICAL INFORMATION

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.

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

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

Chronic (long-term) effects: None known to humans

Toxicity: I D50 LC₅₀

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

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

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: None Known

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

Degradability: 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

Hazard Class: **EXCEPTION for Ground Shipping**

Secondary Risk: None 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" **Identification Number:** UN 1133

Packing Group: PG II

Label Required: Class 3 Flammable Liquid

Marine Pollutant: TDG CLASS: FLAMMABLE LIQUID 3 SHIPPING NAME: **ADHESIVES**

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

AICS, Korea ECL/TCCL, Japan MITI (ENCS) Symbols: F. Xi Risk Phrases: R11: Highly flammable

R20: Harmful by inhalation. R66: Repeated exposure may cause skin dryness or cracking

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

S9: Keep container in a well-ventilated place. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Safety Phrases:

S16: Keep away from sources of ignition - No smoking. S33: Take precautionary measures against static discharges.

S25: Avoid contact with eyes S46: If swallowed, seek medical advise immediately and show this container or label

SECTION 16 - OTHER INFORMATION

Specification Information: All ingredients are compliant with the requirements of the European

Department issuing data sheet: Safety Health & Environmental Affairs Directive on RoHS (Restriction of Hazardous Substances).

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

Reissue date / reason for reissue: 6/10/2013 / 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.

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TDG INFORMATION