IPEX

GHS SAFETY DATA SHEET

Date Revised: JAN 2017 IPEX 4 GRY Low VOC General Purpose Cement for PVC Plastic Pipe Supersedes: NOV 2014

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

IPEX 4 GRY Low VOC General Purpose Cement for PVC Plastic Pipe

PRODUCT USE: Low VOC Solvent Cement for PVC Plastic Pipe

SUPPLIER: MANUFACTURER: IPS Corporation

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

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, +1 813-248-0585 (International) Medical: CHEMTEL Tel. 800-255-3924, +1 813-248-0585 (International)

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

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

Skin Sensitization: NO Eye: Category 2

GHS LABEL:





Signal Word: Danger

WHMIS CLASSIFICATION:

CLASS B. DIVISION 2 CLASS D. DIVISION 2B

Hazard Statements

H225: Highly flammable liquid and vapo H319: Causes serious eye irritation H332: Harmful if inhaled

H335: May cause respiratory irritation H351: Suspected of causing cancer EUH019: May form explosive peroxides **Precautionary Statements**

P210: Keep away from heat/sparks/open flames/hot surfaces

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

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

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

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

Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice. Skin contact: 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.

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

May cause nausea, vomiting, diarrhea and mental sluggishness Ingestion: 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: 1-Slight Water spray or stream. Health 2 2 **Exposure Hazards:** Inhalation and dermal contact Flammability 3 2-Moderate Combustion Products: Oxides of carbon, hydrogen chloride and smoke 0 0 3-Serious Reactivity PPE 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. Materials not to be used for clean up: Aluminum 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.

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

						OSHA	CAL/OSHA	CAL/OSHA		ĺ
EXPOSURE LIMITS:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL	PEL-Ceiling	PEL	Ceiling	CAL/OSHA STEL	l
	Tetrahydrofuran (THF)	50 ppm	100 ppm	200 ppm	N/E	N/E	200 ppm	N/E	250 ppm	l
	Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	N/E	N/E	200 ppm	N/E	300 ppm	l
	Cyclohexanone	20 ppm	50 ppm	50 ppm	N/E	N/E	25 ppm	N/E	N/E	l

Engineering Controls: Use local exhaust as needed.

Monitoring: Maintain breathing zone airborne concentrations below exposure limits.

Personal Protective Equipment (PPE):

Eve 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 equipment.

IPEX

Stability:

Cyclohexanone

Symbols:

Risk Phrases:

Safety Phrases:

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Gray, medium syrupy liquid

Odor: Odor Threshold: Ketone pH: Not Applicable Melting/Freezing Point: **Boiling Range:**

-108.5°C (-163.3°F) Based on first melting component: THF 66°C (151°F) Based on first boiling component: THF Boiling Point: Flash Point:

-20°C (-4°F) TCC based on THF Specific Gravity: 0.9611 @23°C (73°F)

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

Partition Coefficient n-octanol/water: Not Available

321°C (610°F) based on THF Auto-ignition Temperature:

Decomposition Temperature: Not Applicable

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

Stable

SECTION 10 - STABILITY AND REACTIVITY

Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit)

Incompatible Materials:

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

Conditions to avoid: Keep away from heat, sparks, open flame and other ignition sources. Oxidizers, strong acids and bases, amines, ammonia

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicity: LD₅₀ LC₅₀ Inhalation 3 hrs. 21,000 mg/m³ (rat) Tetrahydrofuran (THF) Oral: 2842 mg/kg (rat) STOT SE3 Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit) Inhalation 8 hrs. 23,500 mg/m³ (rat) Methyl Ethyl Ketone (MEK) STOT SE3

Reproductive Effects **Teratogenicity** Mutagenicity **Embryotoxicity** Sensitization to Product Synergistic Products 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: Not readily biodegradable

Minimal to none. Bioaccumulation:

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name: Adhesives 3

Hazard Class: DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package Secondary Risk: None

Identification Number: UN 1133

Packing Group: PG II Label Required: Class 3 Flammable Liquid

Marine Pollutant: NO

TDG CLASS:

SHIPPING NAME: UN 1133, PG II UN NUMBER/PACKING GROUP:

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information: Highly Flammable, Irritant, Carc. Cat. 2 F. Xi

R11: Highly flammable

R20: Harmful by inhalation

R36/37: Irritating to eyes and respiratory system.

S9: Keep container in a well-ventilated place.

S16: Keep away from sources of ignition - No smoking.

S25: Avoid contact with eyes

S33: Take precautionary measures against static discharges. S46: If swallowed, seek medical advise immediately and show this container or label.

SECTION 16 - OTHER INFORMATION Specification Information:

Department issuing data sheet: Safety Health & Environmental Affairs

Training necessary: Yes, training in practices and procedures contained in product literature. Reissue date / reason for reissue:

Solvent Cement for PVC Plastic Pipe Intended Use of Product:

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.

Filename: IPEX 4 GRY LoVoc 1-17.xls Page 2 of 2

0.88 ppm (Cyclohexanone)

66°C (151°F) to 156°C (313°F)

> 1.0 (BUAC = 1)Category 2

LEL: 1.1% based on Cyclohexanone UEL: 11.8% based on THF

Vapor Pressure: 129 mm Hg @ 20°C (68°F)based on THF

Vapor Density:

Evaporation Rate:

Flammability Limits:

Flammability:

Inhalation 4 hrs. 8 000 PPM (rat)

Other Data: Viscosity: Medium bodied

>2 (Air = 1)

Target Organs

Not Established

Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D" TDG INFORMATION

FLAMMABLE LIQUID 3 **ADHESIVES**

Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS)

R66: Repeated exposure may cause skin dryness or cracking R67: Vapors may cause drowsiness and dizziness

EXCEPTION for Ground Shipping

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

All ingredients are compliant with the requirements of the European Directive on RoHS (Restriction of Hazardous Substances).