**IPEX** 

## **GHS SAFETY DATA SHEET**

Date Revised: NOV 2014

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

Supersedes: JUN 2013

## **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: IPEX Inc. 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**

CITC	$\sim$ 1	ASSIFICATION:

Health		Е	nvironmental	Physical		
Acute Toxicity:	Category 4	Acute Toxicity:	None Known	Flammable Liquid	Category 2	
Skin Irritation:	Category 3	Chronic Toxicity:	None Known			
Skin Sensitization:	NO	-				
Eve:	Category 2					

GHS LABEL:







Signal Word: Danger WHMIS CLASSIFICATION: CLASS B, DIVISION 2

CLASS D, DIVISION 2B

Hazard Statements	Precautionary Statements				
H225: Highly flammable liquid and vapor	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking				
H319: Causes serious eye irritation	P261: Avoid breathing dust/fume/gas/mist/vapors/spray				
H332: Harmful if inhaled	P280: Wear protective gloves/protective clothing/eye protection/face protection				
H335: May cause respiratory irritation	P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing				
H336: May cause drowsiness or dizziness	P403+P233: Store in a well ventilated place. Keep container tightly closed				
H351: Suspected of causing cancer	P501: Dispose of contents/container in accordance with local regulation				
EUH019: May form explosive peroxides					

#### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS#	CAS# EINECS # REACH C		CONCENTRATION
			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
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**

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

Skin contact:
Inhalation:
Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice.
Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.
Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.
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**

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 3 2-Moderate Combustion Products: Oxides of carbon, hydrogen chloride and smoke Reactivity 0 0 3-Serious 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.

Storage: 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		
EXPOSURE LIMITS:	Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL	PEL-Ceiling	PEL	Ceiling	CAL/OSHA STEL	
	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	ı

Engineering Controls: 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.

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.

Filename: IPEX 4 CLR LoVoc 11-14.xls Page 1 of 2

11/13/2014 5:07 PM

**IPEX** 

## **GHS SAFETY DATA SHEET**

Date Revised: NOV 2014 IPEX 4 CLR Low VOC General Purpose Cement for PVC Plastic Pipe Supersedes: JUN 2013

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES** 

Clear, medium syrupy liquid Odor: Ketone

Odor Threshold: 0.88 ppm (Cyclohexanone) pH: Not Applicable -108.5°C (-163.3°F) Based on first melting component: THF . Melting/Freezing Point: **Boiling Range:** 66°C (151°F) to 156°C (313°F)

> 1.0 (BUAC = 1) **Boiling Point:** 66°C (151°F) Based on first boiling component: THF **Evaporation Rate:** Category 2 Flash Point: -20°C (-4°F) TCC based on THF Flammability:

Specific Gravity: 0.9611 @23°C (73°F) Flammability Limits: LEL: 1.1% based on Cyclohexanone

UEL: 11.8% based on THF Solubility: Solvent portion soluble in water. Resin portion separates out. Partition Coefficient n-octanol/water: 129 mm Hg @ 20°C (68°F)based on THF Not Available Vapor Pressure:

321°C (610°F) based on THF Auto-ignition Temperature: Vapor Density: >2 (Air = 1) **Decomposition Temperature:** Not Applicable Other Data: Viscosity: Medium bodied

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

SECTION 10 - STABILITY AND REACTIVITY

Stability:

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.

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:

Cyclohexanone

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

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

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 LD50 LC<sub>50</sub> Toxicity: **Target Organs** 

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

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

**SECTION 12 - ECOLOGICAL INFORMATION** 

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

Identification Number: UN 1133 Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D" Packing Group: PG II

Label Required: Class 3 Flammable Liquid TDG INFORMATION

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, Carc. Cat. 2 Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia

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

R11: Highly flammable Risk Phrases:

> 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 dizzines

Safety Phrases: 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.

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

S25: Avoid contact with eves 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: 11/13/2014 / 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.

Filename: IPEX 4 CLR LoVoc 11-14.xls Page 2 of 2

11/13/2014 5:07 PM