

GHS SAFETY DATA SHEET

Date Revised: NOV 2018 WELD-ON FLOWGUARD GOLD® Low VOC Cement for CPVC Plastic Pipe Supersedes: OCT 2018

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

WELD-ON FLOWGUARD GOLD® Low VOC Cement for CPVC Plastic Pipe

PRODUCT USE: Low VOC Solvent Cement for CPVC Plastic Pipe

SUPPLIER: MANUFACTURER: IPS Corporation

17109 South Main Street, Gardena, CA 90248-3127

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:	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

CLASS B, DIVISION 2 WHMIS CLASSIFICATION:

CLASS D, DIVISION 2B

Hazard Statements

H225: Highly flammable liquid and vapor H319: Causes serious eye irritation H226: Flammable liquid and vapour

H332: Harmful if inhaled H335: May cause respiratory irritation

H336: May cause drowsiness or dizziness H351: Suspected of causing cancer EUH019: May form explosive peroxides

EUH066: Repeated exposure may cause skin dryness or cracking

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

P337+P313: Get medical advice/attention

P403+P233; Store in a well ventilated place. Keep container tightly closed 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

	CAS	EINECS	REACH	CONCENTRATION
			Registration Number	% by Weight
Tetrahydrofuran (THF)	109-99-9	203-726-8	01-2119444314-46-0000	30 - 40
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	01-2119457290-43-0000	15 - 25
Cyclohexanone	108-94-1	203-631-1	01-2119453616-35-0000	10 - 18

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. Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice. Inhalation: Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately. Ingestion:

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,

Eve 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

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 1-Slight 2 Exposure Hazards: Inhalation and dermal contact Flammability 2-Moderate 3 Combustion Products: Oxides of carbon, hydrogen chloride and smoke Reactivity 0 0 3-Serious В 4-Severe

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

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).

Prevent product or liquids contaminated with product from entering sewers, drains, soil or open water course. Clean up with sand or other inert absorbent material. Transfer to a closable steel vessel. Environmental Precautions:

Methods for Cleaning up: 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 33°C (90°F) and away from direct sunlight. Storage:

Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, chlorinated compounds, strong oxidizers and isocvanates.

Follow all precautionary information on container label, product bulletins and solvent cementing literature.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION ACGIH OSHA 8-hr PEL CAL/OSHA CAL/OSHA CAL/OSHA 15-min STEL EXPOSURE LIMITS: Component 15-min STEL PEL-Ceiling 8-hr TLV 15 min STEL 8-hr PEL Ceiling 50 ppm N/E 200 ppm Tetrahydrofuran (THF) 100 ppm 200 ppm N/E N/E 250 ppm N/E N/E Methyl Ethyl Ketone (MEK) 200 ppm 300 ppm 200 ppm N/E 200 ppm 300 ppm 25 ppm Cyclohexanone 20 ppm 50 ppm N/E N/E N/E N/E 50 ppm

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.

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

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 abo 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

Yellow, medium syrupy liquid Ketone

Odor: Odor Threshold: 0.88 ppm (Cyclohexanone) pH: Melting/Freezing Point: Not Applicable

-108.5°C (-163.3°F) Based on first melting component: THF 66°C (151°F) to 156°C (313°F) Boiling Range: Evaporation Rate: Boiling Point: 66°C (151°F) Based on first boiling component: THF 1.0 (BUAC = 1)

-20°C (-4°F) TCC based on THF Flash Point: Flammability:

Category 2 LEL: 1.1% based on Cyclohexanone Specific Gravity: 0.986 @23°C (73°F) Flammability Limits:

Solubility: So Partition Coefficient n-octanol/water: Solvent portion soluble in water. Resin portion separates out.

er: Not Available UFI: 11.8% based on THF 129 mm Hg @ 20°C (68°F)based on THF Vapor Pressure:

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: ≤ 490 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

Toxicity: LD₅₀ Target Organs Tetrahydrofuran (THF) Oral: 2842 mg/kg (rat) Inhalation 3 hrs. 21,000 mg/m3 (rat) STOT SE3 Methyl Ethyl Ketone (MEK) Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit) Inhalation 8 hrs. 23,500 mg/m3 (rat) STOT SE3 Cyclohexanone Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit) Inhalation 4 hrs. 8.000 PPM (rat) Not Established

Synergistic Products Reproductive Effects Teratogenicity Mutagenicity Embryotoxicity Sensitization to Product 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 < 490 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 DOT Limited Quantity: Up to 5L per inner packaging, 30 kg gross weight per package None

Secondary Risk: Identification Number: UN 1133 Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D"

Packing Group: PG II

Class 3 Flammable Liquid Label Required: TDG INFORMATION Marine Pollutant: NO TDG CLASS

FLAMMABLE LIQUID 3 SHIPPING NAME **ADHESIVES**

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

Risk Phrases: R11: Highly flammable R36/37: Irritating to eyes and respiratory system

R19: May form explosive peroxide R66: Repeated exposure may cause skin dryness or cracking

R20: Harmful by inhalation. 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 water and seek medical advice.

S9: Keep container in a well-ventilated place. S29: Do not empty into drains. S33: Take precautionary measures against static discharges. S16: Keep away from sources of ignition - No smoking

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

SECTION 16 - OTHER INFORMATION

Specification Information: Department issuing data sheet: IPS, Safety Health & Environmental Affairs

All ingredients are compliant with the requirements of the European <EHSinfo@ipscorp.com> E-mail address: Directive on RoHS (Restriction of Hazardous Substances).

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

Reissue date / reason for reissue: 11/27/2018 / Updated GHS Standard Format

Intended Use of Product: Solvent Cement for CPVC 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.