

GHS SAFETY DATA SHEET

D1 Medium Bodied Grev PVC-40 - 10D1

DEC 2019 Date Revised: Supersedes: NOV 2019

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME D1 Medium Bodied Grey PVC-40 - 10D1 PRODUCT USE: Low VOC Solvent Cement for PVC Plastic Pine

SUPPLIER: IPS Corporation 777 McKay Road, Pickering, Ontario L1W 3A3 Phone: 800 888-8312

EMERGENCY: Transportation: CANUTEC, 1 (613) 996-6666 Medical: CANUTEC, 1 (613) 996-6666

SECTION 2 - HAZARDS IDENTIFICATION

GHS CLASSIFICATION: Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

	Hea	<u>alth</u>		Environm	<u>Environmental</u>		
Serious Eye Damage	Category 2A	Specific Target Organ	Category 3	Acute Toxicity:	None Known		
Skin Irritation:	Category 2	Toxicity (single exposure)		Chronic Toxicity:	None Known		
Carcinogenicity	Category 2			Physic	<u>al</u>		
				Flammable Liquid	Category 2		

GHS LABEL:



Signal Word: Danger

Hazard Statements	Precautionary Statements				
H225: Highly flammable liquid and vapor	P201: Obtain special instructions before use				
H302: Harmful if swallowed	P202: Do not handle until all safety precautions have been read and understood.				
H315: Causes skin irritation	P210: Keep away from heat/sparks/open flames/hot surfaces - No smoking				
H319: Causes serious eye irritation	P233 + P403: Keep container tightly closed. Store in a well-ventilated place.				
H332: Harmful if inhaled	P240 + P241: Ground/bond container and receiving equipment. Use explosion-proof equipment.				
H335: May cause respiratory irritation	P242 + P243: Use only non-sparking tools. Take precautionary measures against static discharge.				
H336: May cause drowsiness or dizziness	P261: Avoid breathing dust/fume/gas/mist/vapors/spray				
H351: Suspected of causing cancer	P501: Dispose of contents/ container to an approved waste disposal plant.				
<u>Response</u>					
P301+310: IF SWALLOWED: Immediately call a POISON CENTER/Medical Attention	P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.				
P331: Do NOT induce vomiting.	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.				
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.	Remove contact lenses, if present and easy to do. Continue rinsing.				
Rinse skin with water [or shower].	P308+313: IF exposed or concerned: Get medical advice/attention.				

Rinse skin with water [or shower]. Percentage of Ingredients Unknown of Acute Dermal Toxicity:

Physical Hazards Not Otherwise Classified Vapours may form explosive mixture with air

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS	EINECS	REACH	CONCENTRATION	
	SAS .	LIIILOO	Registration Number	% by Weight	
Tetrahydrofuran (THF)	109-99-9	203-726-8	01-2119444314-46-0000	40 - 50	
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	01-2119457290-43-0000	20 - 30	
Cyclohexanone	108-94-1	203-631-1	01-2119453616-35-0000	5 - 15	

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

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. 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 Carbon dioxide, dry chemical powder or appropriate foam 0-Minimal Unsuitable Extinguishing Media: Exposure Hazards: Water spray or stream. Inhalation and dermal contact Health 1-Slight Flammability Reactivity 3 2-Moderate 3-Serious PPE 4-Severe

Unusual Fire and Explosion Hazards:

Highly flammable liquid and vapour. Can ignite at room temperature. Releases vapour that can form explosive mixture with air.

Can be ignited by static discharge. May travel a considerable distance to a source of ignition and flash back to a leak or open container May accumulate in hazardous amounts in low-lying areas especially inside confined spaces, resulting in a fire hazard.

Protection for Firefighters:

A vacuate area. Fight fire from a safe distance or a protected locar, For a massive fire, immediately evacuate the area and use unmanned hose holder or monitor nozzles. Before entry, especially into confined areas, use an appropriate monitor to check for: flammable or explosive atmosphere. Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Keep away from heat, sparks and open flame.

Provide sufficient ventilation, use explosion-proof exhaust ventilation equipment or wear suitable respiratory protective equipment.

Provide suminent vertication, use explosion-priore deviation requipment or wear suitable respiratory protect 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: Contain spill using noncombustible material such as vermiculite, earth or sand. Place used absorbent into suitable, covered, labelled containers for disposal. Contaminated absorbent poses the same hazard as the spilled product.

Materials not to be used for clean up: Aluminum or plastic containers. Do not use absorbents.

SECTION 7 - HANDLING AND STORAGE

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Electrically bond and ground equipment. Ground clips must contact bare metal. Use non-sparking tools. Wash hands thoroughly after handling this material. No smoking.

Avoid breathing in this product. Do not get in eyes, on skin or on clothing. Do not swallow. Avoid exposure during pregnancy and while nursing.

Only use where there is adequate ventilation. Avoid generating vapours or mists.

Keep storage area separate from populated work areas. Store in a cool, dry, well ventilated area, out of direct sunlight and away from incompatible materials and any source of ignition. Ventilation fans and electrical equipment should be non-sparking.

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

ATTENTION: Emptied containers may retain hazardous residue and explosive vapours. Keep away from heat, sparks and flames. Do not cut puncture or weld near this container. Follow label warning until container is thoroughly cleaned or destroyed.

SECTION 8 - PRECAUTIONS TO CONTROL EXPOSURE / PERSONAL PROTECTION

EXPOSURE LIMITS:	Component	ACGIH 8-hr TLV	ACGIH 15-min STEL	OSHA 8-hr PEL	Ontario OEL-TWA	Ontario STEL / Ceiling	CAL/OSHA 8-hr PEL	CAL/OSHA Ceiling	CAL/OSHA 15-min 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

Engineering Controls: Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored. Control static electricity discharges

which includes bonding of equipment to ground. Provide safety shower in work area, if contact or splash hazard exists. Maintain breathing zone airborne concentrations below exposure limits.

Monitoring: ipment (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.

The vent 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.



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Physical State: Odor Threshold: Percent Volatile by Boiling Range: Evaporation Rate:

Flammability Limits:

Flammability:

Liquid 0.88 ppm (Cyclohexanone) 82%

> 1.0 (BUAC = 1)

66°C (151°F) to 156°C (313°F)

Category 2 LEL: 1.1% based on Cyclohexanone

UEL: 11.8% based on THF 129 mm Hg @ 20°C (68°F) based on THF >2 (Air = 1) Medium bodied

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Grey
Ketone
Not Applicable
-108.5°C (-163.3°F) Based on first melting component: THF
66°C (151°F) Based on first boiling component: THF
45°C (-4°F) TCC hased no THF pH: Melting/Freezing Point: **Boiling Point:**

Flash Point: -14°C (-6.8°F) TCC based on THF

Specific Gravity: Solubility:

Partition Coefficient n-octano Auto-ignition Temperature: Decomposition Temperature:

VOC Content:

0.941 (0.923°C (7.3°F)
Solvent portion soluble in water. Resin portion separates out.
er: Not Available
321°C (610°F) based on THF Vapor Pressure: Vapor Density: Other Data: Viscosity: Not Applicable Other Data: Viscosity: When applied as directed, per SCAQMD Rule 1168, Test Method 316A, VOC content is: ≤ 510 g/l.

SECTION 10 - STABILITY AND REACTIVITY

Normally stable. THF- Vapours may form explosive mixture with air. Reactivity

None in normal use. When forced to burn, this product gives off oxides of carbon and smoke. High temperatures. Open flames, sparks, static discharge, heat and other ignition sources. Oxidizing agents (e.g. peroxides). Hazardous decomposition products: Conditions to avoid: Incompatible Materials:

SECTION 11 - TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, Eye and Skin Contact

ation Hazard: May be drawn into the lungs (aspirated) if swallowed or vomited. Can cause lung damage if aspirated based on human experience.

Acute symptoms and effects:

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

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. Eve Contact: Skin Contact:

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

Chronic (long-term) effects:

(THF) Category 2 Carcinogen

(MEK) Low level chronic exposure has been shown to cause decreased memory and impairment of the central nervous system.

d: This material may cause defatting and irritation of skin (Dermatitis) upon prolonged or repeated contact.

Health Hazards Not Otherwise Classific

Aspiration Hazard: No aspiration toxicity classification

Respiratory or Skin S Not Applicable

Target Organs Toxicity: Tetrahydrofuran (THF) Oral: 2842 mg/kg (rat), Dermal: > 2,000 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 Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit) Cyclohexanone Inhalation 4 hrs. 8,000 PPM (rat)

Acute Toxicity

Methyl Ethyl Ketone (MEK) Acute (Oral) Toxicity: None Acute (Inhalation) Toxicity: None Acute (Dermal) Toxicity: None

Specific Target Exposure Toxicity (Single Exposure): Category 3 Specific Target Exposure Toxicity (Repeated Exposure): Not Applicable

Reproductive Effects Teratogenicity Mutagenicity Embryotoxicity Sensitization to Product Synergistic Products Not Establishe (THF) Category 2 Carcinogenicity:

SECTION 12 - ECOLOGICAL INFORMATION

Daphnia magna (water flea): Pseudokirchneriella subcapitata (microalgae) Acute Aquatic Toxicity 96-hour 2160 mg/L 48-hour No Data Available Growth rate inhibitor 3,700 mg/l - 192 hour Tetrahydrofuran (THF) Methyl Ethyl Ketone > 100 mg/L > 100 ma/L 2.029 mg/l - 96 hour 527 mg/L > 100 mg/L 0.925 mg/l - 72 hour Cyclohexanone

Mobility in Soil: If released into the environment, this product can move rapidly through the soil Degradability: Does not degrade rapidly based on quantitative tests. (Tetrahydrofuran) This product and its degradation products are not known to bioaccumulate Bioaccumulation

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Dispose of waste and containers in compliance with applicable Federal, State, Provincial, and Local regulations. Consult disposal expert

SECTION 14 - TRANSPORT INFORMATION

EXCEPTION for Ground Shipping

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"

TDG CLASS:

FLAMMABLE LIQUID 3

CURDING NAME:

AUTONOMIC NAME:

CURDING NAME:

CONTROLLED Proper Shipping Nam Hazard Class: None UN 1133 PG II Secondary Risk:
Identification Number:
Packing Group:

Class 3 Flammable Liquid ADHESIVES Label Required: SHIPPING NAME Marine Pollutant: NO UN NUMBER/PACKING GROUP: UN 1133. PG II WHIMIS Class B2 D2B

SECTION 15 - REGULATORY INFORMATION
Precautionary Label Information: Highly Flammable, Irritant, Carc. Cat. 2
Symbols: F, Xi Ingredient Listings: USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS) Symbols: Risk Phrases:

R11: Highly flammable

R20: Harmful by inhalation R66: Repeated exposure may cause skin dryness or cracking R67: Vapors may cause drowsiness and dizziness

R36/37: Irritating to eyes and respiratory system. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice Safety Phrases: 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.

Compliance Statement: This SDS was prepared to be in accordance with Domestic Substances List / Non-Domestic Substances List

US OSHA Hazard Communication Standard 29 CFR 1910.1200 (Rev 2012) (DSL) / (NDSL)

Canadian Workplace Hazardous Materials Information System (WHMIS) 2015 All ingredients are listed on the DSL/NDSL

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 E-mail address: <EHSinfo@ipscorp.com> Directive on RoHS (Restriction of Hazardous Substances

Yes, training in practices and procedures contained in product literature. 12/31/2019 / Updated GHS Standard Format Training necessary:

date / reason for reissue:

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 ver, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereol