SCHWARTZ
ADVANCED CHEMISTRY SOLUTIONS

GHS SAFETY DATA SHEET

Primer Cleaner - VC100 4T174

Date Revised: **JUL 2018**
Supersedes: **MAR 2018**

SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **Primer Cleaner - VC100 4T174**

PRODUCT USE: Low VOC Primer for PVC Plastic Pipe

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

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

Health				Physical	
Acute (Oral) Toxicity:	Category 4	Specific Target Organ Toxicity:	Category 3	Flammable Liquid	Category 2
Acute (Dermal) Toxicity:	Category 4	(single exposure)			
Skin Irritation:	Category 2	Specific Target Organ Toxicity:	Category 2	**Environmental**	
Eye Irritation:	Category 2	(repeated exposure)		Acute Toxicity: (Aquatic)	Category 2
Carcinogenicity	Category 2			Chronic Toxicity:	None Known
Reproductive Toxicity:	Category 2				

Physical Hazards Not Otherwise Classified
May form explosive peroxides.

GHS LABEL: 

Signal Word:
Danger

WHMIS CLASSIFICATION: CLASS B, DIVISION 2

Hazard Statements	Precautionary Statements
H225: Highly flammable liquid and vapor	P210: Keep away from heat/sparks/open flames/hot surfaces – No smoking
H304: May be fatal if swallowed and enters airways.	P243: Take precautionary measures against static discharge.
H315: Causes skin irritation.	P261: Avoid breathing dust/fume/gas/mist/vapors/spray
H336: May cause drowsiness or dizziness.	P273: Avoid release to the environment.
H351: Suspected of causing cancer	P280: Wear protective gloves/protective clothing/eye protection/face protection
H361: Suspected of damaging fertility or the unborn child.	P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician
H373 May cause damage to organs through prolonged or repeated exposure.	P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
H401: Toxic to aquatic life.	P331 - If swallowed, do NOT induce vomiting
	P403+P233: Store in a well ventilated place. Keep container tightly closed
	P405 - Store locked up
	P501: Dispose of contents/container in accordance with local regulation

Physical Hazards Not Otherwise Classified
May form explosive peroxides.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

	CAS #	EINECS #	REACH Pre-registration Number	CONCENTRATION % by Weight
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	05-2116297728-24-0000	40 - 55
Toluene	108-88-3	203-625-9	Under development	30 - 45
Tetrahydrofuran (THF)	109-99-9	203-726-8	05-2116297729-22-0000	1 - 5
Acetone	67-64-1	200-662-2	05-2116297713-35-0000	1 - 5

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.
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. Never give anything by mouth if person is rapidly losing consciousness, or is unconscious or convulsing. Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Immediately call a Poison Centre or doctor.

Likely Routes of Exposure Inhalation, Eye and Skin Contact

Acute symptoms and effects:

Inhalation: Symptoms/injuries after inhalation : EXPOSURE TO HIGH CONCENTRATIONS: Headache. Nausea. Feeling of weakness. Dizziness. Central nervous system depression. Narcosis. Mental confusion. Drunkenness. Coordination disorders. Disturbed motor response. Disturbances of consciousness.
Eye Contact: Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid.
Skin Contact: Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.
Ingestion: Risk of aspiration pneumonia. Nausea. Abdominal pain. Symptoms similar to those listed under inhalation.

Chronic (long-term) effects: Category 2 Carcinogen

Chronic (long-term) effects (Toluene): ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Dry skin. Skin rash/inflammation. Impairment of the nervous system. Tremor. Impaired memory. Impaired concentration. Brain affection. Disturbances of heart rate. Change in the haemogramme/blood composition.

Health Hazards Not Otherwise Classified: This material may cause defatting and irritation of skin (Dermatitis) upon prolonged or repeated contact.

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

SECTION 5 - FIREFIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide, dry chemical powder or appropriate foam
Unsuitable Extinguishing Media: Water spray or stream.
Exposure Hazards: Inhalation and dermal contact
Combustion Products: Oxides of carbon and smoke

	HMIS	NFPA	
Health	2	2	0-Minimal
Flammability	3	3	1-Slight
Reactivity	0	0	2-Moderate
PPE	B		3-Serious
			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: Evacuate area. Fight fire from a safe distance or a protected location. 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

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: 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

Handling: 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.

Storage: 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 TLV	ACGIH STEL	OSHA PEL	OSHA STEL	OSHA PEL-Ceiling	CAL/OSHA PEL	CAL/OSHA Ceiling	CAL/OSHA STEL
Methyl Ethyl Ketone (MEK)	200 ppm	300 ppm	200 ppm	N/E	N/E	200 ppm	N/E	300 ppm
Toluene	50 ppm	150 ppm	300 ppm	N/E	N/E	200 ppm	N/E	N/E
Tetrahydrofuran (THF)	50 ppm	100 ppm	200 ppm	N/E	N/E	200 ppm	N/E	250 ppm
Acetone	500 ppm	750 ppm	1000 ppm	N/E	N/E	500 ppm	3000 ppm	750 ppm

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.

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 protection equipment with an organic vapour cartridge.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear colourless liquid.	**Physical State:**	Liquid
Odour:	Sweet (Methyl ethyl ketone (MEK))	**Odor Threshold:**	2 - 85 ppm (Methyl ethyl ketone) (detection)
pH:	Not Applicable	**Percent Volatile by Volume:**	100%
Melting/Freezing Point:	-86.7 ºC (-124.1 ºF) (MEK) (freezing)	**Boiling Range:**	56.2 - 79.6 ºC (133.2 - 175.3 ºF) (estimated)
Initial Boiling Point/Range	56.2 - 79.6 ºC (133.2 - 175.3 ºF) (estimated)	**Evaporation Rate:**	3.8 - 8.0 (estimated)
Flash Point:	-18 ºC (0 ºF) (closed cup) (estimated) (Acetone)	**Flammability:**	Category 2
Specific Gravity:	0.830 at 20 ºC	**Flammability Limits:**	**LEL:** 2.5 - 12.8% based on Acetone
Solubility:	Slightly soluble in water; Highly soluble in common organic solvents.		**UEL:** 11.8% based on THF
Partition Coefficient *n*-octanol/water:	Not Available	**Vapor Pressure:**	77.48 mm Hg (10.33 kPa) at 20 ºC (MEK)
Auto-ignition Temperature:	Not Available	**Vapor Density:**	2.49 (Air = 1)
Decomposition Temperature:	Not Applicable	**Other Data: Viscosity:**	Not Available
VOC Content:	When applied as directed, per SCAQMD Rule 1168, Test Method 316A,VOC content is: ≤ 550 g/l.		

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability: Normally stable.

Reactivity Not reactive under normal conditions of use.

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

Conditions to avoid: High temperatures. Open flames, sparks, static discharge, heat and other ignition sources.

Incompatible Materials: Oxidizing agents (e.g. peroxides).

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicity:	**LD_{50}**	**LC_{50}**	**Target Organs**
Methyl Ethyl Ketone (MEK)	Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit)	Inhalation 8 hrs. 23,500 mg/m^3 (rat)	STOT SE3
Toluene	Oral: 2600 to 7500mg/kg (rat), Dermal 400 ppm	Inhalation 8000 ppm	Category 3
Tetrahydrofuran (THF)	Oral: 2842 mg/kg (rat)	Inhalation 3 hrs. 21,000 mg/m^3 (rat)	STOT SE3
Acetone	Oral: 5800 mg/kg (rat)	Inhalation 50,100 mg/m^3 (rat)	STOT SE3

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation: At high concentrations severe nose and throat irritation, depression of the central nervous system. Symptoms may include headache, nausea, dizziness, drowsiness and confusion. A severe exposure can cause unconsciousness.

Skin Absorption: Not harmful based on human experience and animal tests.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause effects on the central nervous system.

Reproductive Effects	Teratogenicity	Mutagenicity	Embryotoxicity	Sensitization to Product	Synergistic Products
Not Established	Toluene: May damage the developing fetus	Not Established	Not Established	Not Established	Not Established

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

Acute Aquatic Toxicity	LC50 Fish Pimephales promelas (fathead minnow); 96-hour	EC50 Crustacea Daphnia magna (water flea): 48-hour	ErC50 Algae Desmodesmus subspicatus (algae); 72-hour; static
Methyl Ethyl Ketone	3200 mg/L	No Data Available	No Data Available
Toluene	5.44 mg/l - 7 d	11.5-19.6 mg/L	No Data Available
Tetrahydrofuran (THF)	2160 mg/L	No Data Available	No Data Available
Acetone	No Data Avaialble	7630	No Data Avaialble

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.

Bioaccumulation: This product and its degradation products are not known to bioaccumulate.

SECTION 13 - WASTE DISPOSAL CONSIDERATIONS

Dispose of contents and container in accordance with local, regional, national and international regulations

SECTION 14 - TRANSPORT INFORMATION

Proper Shipping Name: Flammable Liquid
Hazard Class: 3
Secondary Risk: None
Identification Number: UN 1993
Packing Group: PG II
Label Required: Class 3 Flammable Liquid
Marine Pollutant: NO
Special Precautions : Not Applicable

EXCEPTION for Ground Shipping
DOT Limited Quantity: Up to 1L per inner packaging, 30 kg gross weight per package.
Consumer Commodity: Depending on packaging, these quantities may qualify under DOT as "ORM-D" .

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not Applicable

TDG INFORMATION	
TDG CLASS:	FLAMMABLE LIQUID 3
SHIPPING NAME:	Flammable Liquid, n.o.s. (Acetone, Tetrahydrofuran)
UN NUMBER/PACKING GROUP:	UN 1993, PG II

SECTION 15 - REGULATORY INFORMATION

Precautionary Label Information: Highly Flammable, Irritant, Carc. Cat. 2
Symbols: F, Xi
Risk Phrases: R11: Highly flammable.
R20: Harmful by inhalation.
R36/37: Irritating to eyes and respiratory system.
R66: Repeated exposure may cause skin dryness or cracking
R67: Vapors may cause drowsiness and dizziness

Safety Phrases: S9: Keep container in a well-ventilated place.
S16: Keep away from sources of ignition - No smoking.
S25: Avoid contact with eyes.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S33: Take precautionary measures against static discharges.
S46: If swallowed, seek medical advise immediately and show this container or label.

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

Special Precautions: Not applicable
Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

Compliance Statement: This SDS was prepared to be in accordance with:
US OSHA Hazard Communication Standard 29 CFR 1910.1200 (Rev 2012)
Canadian Workplace Hazardous Materials Information System (WHMIS) 2015

USA Toxic Substances Control Act (TSCA) Section 8(b)
All ingredients are listed on the TSCA Inventory.

Domestic Substances List / Non-Domestic Substances List (DSL) / (NDSL)
All ingredients are listed on the DSL/NDSL.

SECTION 16 - OTHER INFORMATION

Specification Information:
Department issuing data sheet: IPS, Safety Health & Environmental Affairs
E-mail address: tncustserv@ipscorp.com

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

Training necessary: Yes, training in practices and procedures contained in product literature.
Reissue date / reason for reissue: 7/17/2018 / Updated GHS Standard Format
Intended Use of Product: Primer 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.