



A CSW Industrials Company

# SAFETY DATA SHEET

## GENE 404L CLEAR

Regular Bodied PVC Solvent Cement - Low VOC

### SECTION 1 - PRODUCT AND COMPANY INFORMATION

**PRODUCT NAME**

Gene 404L Clear Regular Bodied PVC Solvent Cement - Low VOC

**PRODUCT CODE**

55901, 55902, 55904, 55906, 55908

**CHEMICAL FAMILY**

Organic

**USE**

Low VOC Solvent Cement for PVC Plastic Pipe

**MANUFACTURER'S NAME**

RectorSeal Australia Pty Ltd  
PO Box 5092 Hoppers Crossing,  
VIC 3029, Australia  
www.rectorseal.com.au

**DATE OF VALIDATION**

January 2021

**DATE OF PREPARATION**

January 2021

**EMERGENCY TELEPHONE NO.**

Chemtrec 24 Hours  
International +1-703-741-5970

Within Australia +(61)-290372994

**TECHNICAL SERVICE TELEPHONE NO.**

1300 772 878

### SECTION 2 - HAZARDS IDENTIFICATION

#### GHS CLASSIFICATION

**ENVIRONMENTAL HAZARDS**

Acute Toxicity: Not Known  
Chronic Toxicity: Not Known

**HEALTH HAZARDS**

Skin Irritation: Category 3  
Acute Toxicity: Category 4  
Eye Irritation: Category 2A  
Inhalation: Category 4

**PHYSICAL HAZARDS**

Flammable Liquid: Category 2

#### GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS



**Signal Word**

Danger

**WHMIS CLASSIFICATION**

CLASS B, DIVISION 2  
CLASS D, DIVISION 1B

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## HAZARD STATEMENTS

H225: Highly flammable liquid and vapor

H319: Causes serious eye irritation

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

## 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

## RESPONSE

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

## STORAGE

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

## DISPOSAL

P501: Dispose of contents/container in accordance with local regulation

## SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NUMBER	EINECS	REACH Registration Number	CONCENTRATION % by Weight
Tetrahydrofuran (THF)	109-99-9	203-726-8	01-2119444314-46-0000	10 - 30
Methyl Ethyl Ketone (MEK)	78-93-3	201-159-0	01-2119457290-43-0000	10 - 30
Cyclohexanone	108-94-1	203-631-1	01-2119453616-35-0000	10 - 30
Acetone	67-64-1	200-662-2	01-2119471330-49-0000	20 - 40

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

<b>If in eyes:</b>	Flush eyes immediately with plenty of water for 15 minutes and seek medical advice immediately.
<b>If on skin:</b>	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. If irritation develops, seek medical advice.
<b>If inhaled:</b>	Remove to fresh air. If breathing is stopped, give artificial respiration. If breathing is difficult, give oxygen. Seek medical advice.
<b>If swallowed:</b>	Rinse mouth with water. Give 1 or 2 glasses of water or milk to dilute. Do not induce vomiting. Seek medical advice immediately.
<b>LIKELY ROUTE OF EXPOSURES:</b>	Inhalation, Eye and Skin Contact
<b>ACUTE SYMPTOMS AND EFFECTS:</b>	
<b>Inhalation:</b>	Severe overexposure may result in nausea, dizziness and headache. Can cause drowsiness, irritation of eyes and nasal passages.
<b>Eye contact:</b>	Vapors slightly uncomfortable. Overexposure may result in severe eye injury with corneal or conjunctival inflammation on contact with the liquid.
<b>Skin contact:</b>	Liquid contact may remove natural skin oils resulting in skin irritation. Dermatitis may occur with prolonged contact.
<b>Ingestion:</b>	May cause nausea, vomiting, diarrhea and mental sluggishness.
<b>Chronic (long term) effects:</b>	Category 2 Carcinogen

### SECTION 5 - FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Dry chemical powder, carbon dioxide gas, foam, Halon, water fog.
<b>Unsuitable Extinguishing Media:</b>	Water spray or stream.
<b>Exposure Hazards:</b>	Inhalation and dermal contact
<b>Combustion Products:</b>	Oxides of carbon, hydrogen chloride and smoke
<b>Protection for Firefighters:</b>	Self-contained breathing apparatus or full-face positive pressure airline masks.

	<b>HMIS</b>	<b>NFPA</b>	
Health	2	2	0-Minimal
Flammability	3	3	1-Slight
Reactivity	0	0	2-Moderate
PPE	B		3-Serious
			4-Severe

### 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 (110°F) and away from direct sunlight.  
Keep away from ignition sources and incompatible materials: caustics, ammonia, inorganic acids, strong oxidizers and isocyanates.  
Follow all precautionary information on container label, product bulletins and solvent cementing literature.

### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

#### EXPOSURE LIMITS

Component	ACGIH 8-hr TLV	ACGIH 15-min STEL	OSHA 8-hr PEL	OSHA 15 min STEL	OSHA PEL-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
Acetone	250 ppm	500 ppm	1000 ppm	N/E	N/E	500 ppm	3000 ppm	750 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.
- 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.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Clear, regular syrupy liquid
<b>Odor:</b>	Ketone
<b>pH:</b>	Not Applicable
<b>Melting/Freezing Point:</b>	-108.5°C (-163.3°F) Based on first melting component: THF
<b>Boiling Point:</b>	56°C (133°F) Based on first boiling component: Acetone
<b>Flash Point:</b>	-20°C (-4°F) TCC based on Acetone
<b>Specific Gravity:</b>	0.948 @23°C ( 73°F)
<b>Solubility:</b>	Solvent portion soluble in water. Resin portion separates out.
<b>Partition Coefficient n-octanol/water:</b>	Not Available
<b>Auto-ignition Temperature:</b>	321°C (610°F) based on THF
<b>Decomposition Temperature:</b>	Not Applicable
<b>VOC Content:</b>	When applied as directed, per SCAQMD Rule 1168, Test Method 316A,VOC content is: < 510 g/l.
<b>Odor Threshold:</b>	0.88 ppm (Cyclohexanone)
<b>Boiling Range:</b>	56°C (133°F) to 156°C (313°F)
<b>Evaporation Rate:</b>	> 1.0 (BUAC = 1)
<b>Flammability:</b>	Category 2
<b>Flammability Limits:</b>	LEL: 1.1% based on Cyclohexanone UEL: 12.8% based on Acetone
<b>Vapor Pressure:</b>	190 mm Hg @ 20°C (68°F) Acetone
<b>Vapor Density:</b>	>2.0 (Air = 1)
<b>Viscosity:</b>	Regular bodied

**SECTION 10 - STABILITY AND REACTIVITY**

<b>Stability:</b>	Stable
<b>Hazardous decomposition products:</b>	None in normal use. When forced to burn, this product gives off oxides of carbon, hydrogen chloride and smoke.
<b>Conditions to avoid:</b>	Keep away from heat, sparks, open flame and other ignition sources.
<b>Incompatible Materials:</b>	Oxidizers, strong acids and bases, amines, ammonia

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## SECTION 11 - TOXICOLOGY INFORMATION

Toxicity:	LD50	LC50	Target Organs
Tetrahydrofuran (THF)	Oral: 2842 mg/kg (rat)	Inhalation 3 hrs. 21,000 mg/m <sup>3</sup> (rat)	STOT SE3
Methyl Ethyl Ketone (MEK)	Oral: 2737 mg/kg (rat), Dermal: 6480 mg/kg (rabbit)	Inhalation 8 hrs. 23,500 mg/m <sup>3</sup> (rat)	STOT SE3
Cyclohexanone	Oral: 1535 mg/kg (rat), Dermal: 948 mg/kg (rabbit)	Inhalation 4 hrs. 8,000 PPM (rat)	Not Established
Acetone	Oral: 5800 mg/kg (rat)	Inhalation 50,100 mg/m <sup>3</sup> (rat)	STOT SE3

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

<b>Ecotoxicity:</b>	None Known
<b>Mobility in Soil:</b>	If released into the environment, this product can move rapidly through the soil.
<b>Degradability:</b>	Not readily biodegradable
<b>Bioaccumulation:</b>	Minimal to none.

## SECTION 13 - DISPOSAL CONSIDERATIONS

Follow local and national regulations. Consult disposal expert.

## SECTION 14 - TRANSPORTATION INFORMATION

<b>Proper Shipping Name:</b>	Adhesives	<b>EXCEPTION for Ground Shipping</b> <b>DOT Limited Quantity:</b> Up to 5L per inner packaging, 30 kg gross weight per package. <b>Consumer Commodity:</b> Depending on packaging, these quantities may qualify under DOT as "ORM-D".
<b>Hazard Class:</b>	3	
<b>Secondary Risk:</b>	None	
<b>Identification Number:</b>	UN 1133	
<b>Packing Group:</b>	PG II	
<b>Label Required:</b>	Class 3 Flammable Liquid	
<b>Marine Pollutant:</b>	NO	

### TDG INFORMATION

<b>TDG Class:</b>	FLAMMABLE LIQUID 3
<b>Shipping Name:</b>	ADHESIVES
<b>UN Number/Packing Group:</b>	UN 1133, PG II

**SECTION 15 - REGULATORY INFORMATION**

<b>Precautionary Label Information:</b>	Highly Flammable, Irritant, Carc. Cat. 2
<b>Symbols:</b>	F, Xi
<b>Risk Phrases:</b>	R11: Highly flammable R36/37: Irritating to eyes and respiratory system R66: Repeated exposure may cause skin dryness or cracking R67: Vapors may cause drowsiness and dizziness
<b>Safety Phrases:</b>	S2: Keep out of the reach of children 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
<b>Ingredient Listings:</b>	USA TSCA, Europe EINECS, Canada DSL, Australia AICS, Korea ECL/TCCL, Japan MITI (ENCS)
<b>Compliance Statement:</b>	This SDS was prepared to be in accordance with: US OSHA Hazard Communication Standard 29 CFR 1910.1200 (Rev 2012) European Regulation (EC) No (EU) 2015/830 on classification, labelling and packaging of substances and mixtures

**SECTION 16 - OTHER INFORMATION****Specification Information:**

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

**Intended Use of Product:**

Solvent Cement for PVC Plastic Pipe

This document is prepared pursuant to the Model Code of Practice: Preparation of safety data sheets for hazardous chemicals, Publication date 25 May 2018 (Safe Work Australia). The information herein is given in good faith, but no warranty, expressed or implied is made.