MATERIAL SAFETY DATA SHEET

MSDS 0677

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME
Gene 404L Low VOC
Flammability 3
Reactivity 1
PRODUCT CODES

55901, 55902, 55904, 55906, 55908

CHEMICAL FAMILY
Organic

USE

PVC Solvent Cement

MANUFACTURER'S NAME EMERGENCY TELEPHONE NO.
The RectorSeal Corporation Chemtrec 24 Hours
2601 Spenwick Drive (800) 424-9300

Houston, Texas 77055 USA

VALIDATION DATE TECHNICAL SERVICE TELEPHONE NO.

August 2, 2010 (800) 231-3345

REVISION DATE

August 2, 2010

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT 1-12	CAS No. 78-93-3	INGREDIENT	+000	UNITS	
1-12	70-93-3	ACGIH TLV	200 200	ppm	
		OSHA PEL STEL	300	ppm	
40-60	109-99-9	Tetrahydrofuran			
		ACGIH TLV	50	ppm	
		OSHA PEL	200	ppm	
		STEL	250	ppm	
8-18	108-94-1	Cyclohexanone			
		ACGIH TLV	20	ppm (skin)	
		OSHA PEL	50	ppm	
5-20	67-64-1	Acetone			
		ACGIH TLV	500	ppm	
		OSHA PEL	1000	ppm	
		STEL	750	ppm	

Section 3 -- HAZARDS IDENTIFICATION

SUMMARY OF ACUTE HAZARDS

Overexposure may cause coughing, shortness of breath, dizziness, central nervous system depression, intoxication and collapse. It may cause irritation to the respiratory tract and to other mucous membranes.
ROUTE OF EXPOSURE, SIGNS AND SYMPTOMS
INHALATION

Overexposure may cause coughing, shortness of breath, dizziness, central nervous system depression, intoxication and collapse. It may cause irritation to the respiratorytract and to other mucous membranes. EYE CONTACT

Severely irritating. If not removed promptly, will injure eye tissue, which can result in permanent damage. SKIN CONTACT

Frequent or prolonged contact may irritate and cause dermatitis. Low

order of toxicity.

INGESTION

Low order of toxicity. Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchiopneumonia or pulmonary edema.

SUMMARY OF CHRONIC HAZARDS

Repeated or prolonged exposure may cause signs of central nervous system depression and respiratory irritation. This material has been shown to induce tumors in laboratory animals.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Individuals with pre-existing or chronic diseases of the eyes, skin, respiratory system, cardiovascular system, gastrointestinal system, liver, or kidneys may have increased susceptibility to excessive exposure.

Section 4 -- FIRST AID MEASURES

If INHALED: If overcome by exposure, remove victim to fresh air

immediately. Give oxygen or artificial respiration as

. Obtain emergency medical attention. Prompt

action is essential.

If on SKIN: Immediately flush with large amounts of water; use soap

if available. Remove contaminated clothing.

If in EYES: Immediately flush with large amounts of water for at least

15 minutes. Get prompt medical attention.

If SWALLOWED: If swallowed, DO NOT induce vomiting. Keep at rest. Get

prompt medical attention.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT LEL UEL 4.1 F (-17 C) SETA CC 1.8% 11.8

EXTINGUSING MEDIA

Foam, dry chemical, carbon dioxide or water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus (SCBA) and other protective clothing. Hazardous decomposition products possible (see Section 10).

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible - moderate flash point. Vapors heavier than air and may travel along the ground or to low spots at considerable distances to a source of ignition resulting in potential flashback. Burning liquid may float on water. Heat may build up pressure and rupture containers.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition. Use absorbent materials to prevent footing hazard and to contain. Ventilate area with natural or explosion-proof, forced air ventilation. Avoid flushing into sewers, drains, waterways, and soil. Wear protective clothing and respiratory protection during cleanup.

Section 7 -- HANDLING AND STORAGE

DECAMETANC TO BE TAKEN IN HANDIING AND CHORING. Moon contains alogad and

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container closed and upright when not in use. Do not store near heat, sparks, or open flames. If transferring this material to other containers, ground all containers to avoid static electricity buildup and discharge which may ignite flammable vapors.

OTHER PRECAUTIONS: Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues and vapors; treat as if full and observe all products precautions. Do not reuse empty containers.

KEEP OUT OF REACH OF CHILDREN. ______ Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION RESPIRATORY PROTECTION (SPECIFY TYPE): In confined poorly ventilated areas, use NIOSH/MSHA approved air purifying or supplied air purifying or supplied air respirators. VENTILATION - LOCAL EXHAUST: Acceptable SPECIAL: Explosion-proof equipment. MECHANICAL (GENERAL): Preferable OTHER: N/A PROTECTIVE GLOVES: Wear rubber gloves. EYE PROTECTION: Chemical splash goggles (ANSI Z-87.1 or equivalent) OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls recommended. WORK/HYGIENIC PRACTICES: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse. ______ Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES -----BOILING POINT: 151 F (66 C) @ 760mm Hg SPECIFIC GRAVITY (H20 = 1): 0.91 VAPOR PRESSURE (mm Hg): 129 @ 68 F (20 C) MELTING POINT: N/A VAPOR DENSITY (AIR = 1): EVAPORATION RATE (ETHYL ACETATE = 1): 8-14.5 APPEARANCE / ODOR: Liquid/Pungent Odor SOLUBILITY IN WATER: Soluble VOC LEVEL: 510 g/L per SCAQMD Test Method 316A ______ Section 10 -- STABILITY AND REACTIVITY ______ STABILITY: Can form potentially explosive peroxides upon long standing in CONDITIONS TO AVOID: Heat, sparks, open flames, and strong oxidizing, acidic and basic conditions. INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizers, acids and bases. HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO2, HCl and fragmented hydrocarbons. HAZARDOUS POLYMERIZATION: Will not occur. ______ Section 11 -- TOXICOLOGY INFORMATION CHRONIC HEALTH HAZARDS No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Tetrahydrofuran - The National Toxicology Program has reported that exposures of mice and rats to THF vapor levels up to 1800 ppm 6hr/day, 5 days/week for their lifetime caused an incidence of kidney tumors in male rats and liver tumors in female mice. The significance of these findings for human health are unclear at this time, and may be related to "species specific" effects. Elevated incidences of tumors in humans have not been reported for THF. TOXICOLOGY DATA Ingredient Name Methyl Ethyl Ketone Oral-Rat LD50:2737 mg/kg Inhalation-Rat LC50:23,500 mg/m3/8H Tetrahydrofuran

Oral-Rat LD50:1650 mg/kg

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Inhalation-Rat LC50:21,000 ppm/3H
  Cyclohexanone
             Oral-Rat LD50:1535 mg/kg
             Inhalation-Rat LC50:8000 ppm/4H
  Acetone
             Oral-Rat LD50: 5800 mg/kg
             Inhalation-Rat LC50: 50,100mg/m3
______
      Section 12 -- Ecological Information
ECOLOGICAL DATA
Ingredient Name
______
  Methyl Ethyl Ketone
             Food Chain Concentration Potential: None
             WATERFOWL TOXICITY: N/A
             BOD: 214%
             AQUATIC TOXICITY: 5640 mg/1/48 hr/bluegill/TLm/fresh water
  Tetrahydrofuran
             Food Chain Concentration Potential: None
             WATERFOWL TOXICITY: N/A
             BOD: N/A
             AQUATIC TOXICITY: N/A
  Cyclohexanone
             Food Chain Concentration Potential: None
             WATERFOWL TOXICITY: N/A
             BOD: N/A
             AQUATIC TOXICITY: N/A
  Acetone
             Food Chain Concentration Potential: None
             WATERFOWL TOXICITY: N/A
             BOD: N/A
             AQUATIC TOXICITY: LC50/96-hour for fish > 100 \text{ mg/l}
Section 13 -- DISPOSAL CONSIDERATIONS
______
Waste Classification: RCRA classified hazardous waste. Dispose of absorbed
  materials and liquid waste in approved, controlled incineration facility
  in accordance with all local, state and federal regulations.
Disposal Method: Incineration
______
       Section 14 -- TRANSPORTATION INFORMATION
______
DOT: Adhesives, Class 3, UN 1133, PG II, ERG#127.
    Quarts and less: Consumer Commodity, ORM-D
OCEAN (IMDG): Adhesives, Class 3, UN 1133, PG II, IMDG#3174, EMS#3-05,
MFAG#330
  Quarts and less: Adhesives, Class 3, UN 1133, PG II, Limited Quantities or
              Ltd Qty
AIR (IATA): Adhesives, Class 3, UN 1133, PG II, ERG#127
WHMIS (CANADA): Class B-2
______
       Section 15 -- REGULATORY INFORMATION
REGULATORY DATA
Ingredient Name
______
 Methyl Ethyl Ketone
             SARA 313
                         Yes
             TSCA Inventory Yes
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CERCLA RQ 5,000 lb. RCRA Code U159 Tetrahydrofuran SARA 313 No TSCA Inventory Yes
CERCLA RQ 1,000 lb.
RCRA Code U213 RCRA Code U213 Cyclohexanone SARA 313 No TSCA Inventory Yes CERCLA RQ 5,000 lb. RCRA Code U057 Acetone SARA 313 No TSCA Inventory Yes CERCLA RQ 5,000 lb. RCRA Code U002

Section 16 -- OTHER INFORMATION

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made. Consult RectorSeal for further information: (713) 263-8001