MATERIAL SAFETY DATA SHEET

MSDS 0074

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION _____ HMIS CODES PRODUCT NAME 2 Health 3 Gene 404L Low VOC Flammability Reactivity 1 PRODUCT CODES B PPI 55011, 55013, 55014, 55015, 55017, 55019, 55021, 55023, 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 USA Houston, Texas 77055 USA 001-527-3887 International DATE OF VALIDATION TECHNICAL SERVICE TELEPHONE NO. April 19, 2012 (800)231-3345 or (713)263-8001 DATE OF PREPARATION April 19, 2012 _____ Section 2 -- HAZARDS IDENTIFICATION _____ EMERGENCY OVERVIEW OSHA Hazards Flammable liquid, Target Organ Effect, Irritant TARGET ORGANS Liver, KidneyLiver, Kidney GHS CLASSIFICATION PHYSICAL HAZARDS: Flammable Liquid, Category 2 HEALTH HAZARDS Acute Toxicity: Oral: Category 4 Dermal: Category 5 Inhalation: Category 4 Skin Corrosion/Irritation: Category 3 Serious Eye Damage/Eye Irritation: Category 2A Skin Sensitization: Not Classified Respiratory Sensitization: Not Classified Germ Cell Mutagenicity: Not Classified Carcinogenicity: See Section 11 Reproductive Toxicology: Not Classified Target Organ Systemic Toxicity - Single Exposure: Category 3 Target Organ Systemic Toxicity - Repeated Exposure: Not Classified Aspiration Toxicity: Not Classified _____ GHS Label elements, including precautionary statements Pictogram: Flammable, Harmful / Irritant Signal Word: Danger Hazard Statements: H225 - Highly flammable liquid and vapor

H302 - Harmful if swallowed. H313 - May be harmful in contact with skin. H316 - Causes mild skin irritation. H318 - Causes serious eye damage. H319 - Causes serious eye irritation H335 + H336 - May cause respiratory irritation, and drowsiness or dizziness. Precautionary Statements: P102 - Keep out of reach of children. P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking P240 - Ground/Bond container and receiving equipment P261 - Avoid breathing dust/fume/gas/mist/vapors/spray P262 - Do not get in eyes, on skin, or on clothing. P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P362 - Take off contaminated clothing and wash before reuse. EUH066 - Repeated exposure may cause skin dryness or cracking Precautionary Statements - EU No. 1272/2008 _____ Classification according to EU Directives 67/548/EEC or 1999/45/EC For the full text of the R phrases mentioned in this Section, see Section 16 Symbol(s) Xi - Irritant F - Highly flammable R -phrase(s) R11 - Highly flammable R36 - Irritating to eyes R66 - Repeated exposure may cause skin dryness or cracking R67 - Vapors may cause drowsiness and dizziness R-code(s) F;R11 - Xi;R36 - R66 - R67 _____ 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 3 -- COMPOSITION/INFORMATION ON INGREDIENTS _____ INGREDIENT: Methyl Ethyl Ketone PERCENTAGE BY WEIGHT: 1-12 CAS NUMBER: 78-93-3 EC# : 606-002-00-3 _____ INGREDIENT: Tetrahydrofuran PERCENTAGE BY WEIGHT: 40-60 CAS NUMBER: 109-99-9 EC# : 603-025-00-0 _____ INGREDIENT: Cyclohexanone PERCENTAGE BY WEIGHT: 8-18 CAS NUMBER: 108-94-1 EC# : 606-010-00-7 _____ INGREDIENT: Acetone PERCENTAGE BY WEIGHT: 5-20 CAS NUMBER: 67-64-1 EC# : 200-662-2 _____ Section 4 -- FIRST AID MEASURES _____ If overcome by exposure, remove victim to fresh air If INHALED: immediately. Give oxygen or artificial respiration as needed. 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 _____ CONDITIONS OF FLAMMABILITY Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. SUITABLE EXTINGUISHING MEDIA Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS Wear self contained breathing apparatus for fire fighting if necessary. HAZARDOUS COMBUSTION PRODUCTS Hazardous decomposition products formed under fire conditions. - Carbon oxides FURTHER INFORMATION

Use water spray to cool unopened containers. UNUSUAL FIRE AND EXPLOSION HAZARDS: Extremely flammable - very low flash point. Vapors are heavier than air and may travel along ground or to low spots at considerable distance to a source of ignition resulting in potential flashback. Burning liquid may float on water. Heat may build up pressure and rupture closed containers. _____ Section 6 -- ACCIDENTAL RELEASE MEASURES _____ PERSONAL PRECAUTIONS Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Ventilate area with natural or explosion-proof, forced air ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. ENVIRONMENTAL PRECAUTIONS Prevent further leakage or spillage if safe to do so. Avoid flushing into sewers, drains, waterways, and soil. METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP Use absorbent materials to prevent footing hazard and to contain, then collect and place in container for disposal according to local regulations (see section 13). _____ Section 7 -- HANDLING AND STORAGE _____ PRECAUTIONS FOR SAFE HANDLING Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Avoid prolonged or repeated contact with skin or clothing. If transferring this material to other containers, ground all containers to avoid static electricity buildup and discharge which may ignite flammable vapors. CONDITIONS FOR SAFE STORAGE Do not store near heat, sparks, or open flames. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. 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 _____ INGREDIENT UNITS Methyl Ethyl Ketone ACGIH TLV 200 ppm 200 ppm OSHA PEL 300 ppm STEL Tetrahydrofuran 50 ppm ACGIH TLV OSHA PEL 200 ppm STEL 250 ppm Cyclohexanone ACGIH TLV 20 ppm (skin) OSHA PEL 50 ppm Acetone

ACGIH TLV 500 ppm OSHA PEL 1000 ppm STEL 750 ppm _____ 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): 0.91 129 @ 68 F (20 C) VAPOR PRESSURE (mm Hq): MELTING POINT: N/A VAPOR DENSITY (AIR = 1): 2.5 EVAPORATION RATE (ETHYL ACETATE = 1): 8-14.5APPEARANCE/ODOR: Liquid/Pungent Odor SOLUBILITY IN WATER: Soluble VOC LEVEL: 510 g/L per SCAQMD Test Method 316A FLASH POINT 4.1 F (-17 C) SETA CC LOWER EXPLOSION LIMIT 1.8% UPPER EXPLOSION LIMIT 11.8% _____ Section 10 -- STABILITY AND REACTIVITY _____ CHEMICAL STABILITY: Stable under recommended storage conditions. POSSIBILITY OF HAZARDOUS REACTIONS: Can form potentially explosive peroxides upon long standing in air. Vapors may form explosive mixture with air. CONDITIONS TO AVOID: Heat, sparks, open flames, and strong oxidizing, acidic and basic conditions. 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 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/l/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 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: UN1133, Adhesives, Class 3, PG II, ERG#127. Quarts and less: Consumer Commodity, ORM-D OCEAN (IMDG): UN1133, Adhesives, Class 3, PG II, EMS-No: F-E, S-D Quarts and less: Adhesives, Class 3, UN 1133, PG II, Limited Quantities or Ltd Qty AIR (IATA): UN1133, Adhesives, Class 3, PG II, ERG#127 WHMIS (CANADA): Class B-2

Section	15 REGULATORY	INFORMATION
REGULATORY DATA Ingredient Name		
Methyl Ethyl Ketone		
	SARA 313	
	TSCA Inventory	
	CERCLA RQ RCRA Code	U159
Tetrahydrofuran		
	SARA 313	
	TSCA Inventory	
		1,000 lb. U213
Cyclohexanone		0210
	SARA 313	-
	TSCA Inventory	
	CERCLA RQ RCRA Code	5,000 IB. U057
Acetone	NCIA COUC	0037
	SARA 313	No
	TSCA Inventory	Yes
	CERCLA RQ RCRA Code	5,000 lb. U002
		0002
Section 16 OTHER INFORMATION		
Text of R phrases mentioned in Section 2 R11 - Highly flammable R36 - Irritating to eyes R66 - Repeated exposure may cause skin dryness or cracking R67 - Vapors may cause drowsiness and dizziness		
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		