SAFETY DATA SHEET

SDS 0074

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Section 1 -- PRODUCT AND COMPANY IDENTIFICATION
                                                   HMIS CODES
PRODUCT NAME
                                                Health
  Gene 404L Low VOC
                                                Flammability
                                                Reactivity
PRODUCT CODES
                                                 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
                                        (703)527-3887 International
  Houston, Texas 77055 USA
DATE OF VALIDATION
                                       TECHNICAL SERVICE TELEPHONE NO.
  August 12, 2014
                                       (800)231-3345 or (713)263-8001
DATE OF PREPARATION
  August 12, 2014
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
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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) $\rm Xi$ - 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: 20-40

CAS NUMBER: 78-93-3 EC# : 606-002-00-3

INGREDIENT: Tetrahydrofuran PERCENTAGE BY WEIGHT: 20-40

CAS NUMBER: 109-99-9 EC# : 603-025-00-0

INGREDIENT: Cyclohexanone PERCENTAGE BY WEIGHT: 1-20

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 OSHA PEL 200 maga 300 ppm STEL Tetrahydrofuran ACGIH TLV 50 ppm OSHA PEL 200 ppm STEL 250 ppm Cyclohexanone ACGIH TLV 20 ppm (skin) OSHA PEL maga 0.5 Acetone ACGIH TLV 500 maga OSHA PEL 1000 maga 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

VAPOR PRESSURE (mm Hg): 129 @ 68 F (20 C)

MELTING POINT: N/A
VAPOR DENSITY (AIR = 1): 2.5
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

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/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

AOUATIC 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 Yes TSCA Inventory Yes

CERCLA RQ 5,000 lb.

RCRA Code U159

Tetrahydrofuran

SARA 313 No TSCA Inventory Yes

TSCA Inventory Yes CERCLA RQ 1,000 lb.

RCRA Code U213

Cyclohexanone

SARA 313 No

TSCA Inventory Yes CERCLA RO 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

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