1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Id: Seam Sealant 15-95C

Chemical Family: Polyurethane Solution
Application: Coating Solution

Prepared By: Health, Safety and Environment Department

HMIS Classification: Health: 3* Flammability: 3 Physical Hazard: 0

HMIS Ratings: 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

(* Chronic Health Hazard)

Supplier Information

Company Name: Coghlan's Ltd.

Address: 121 Irene Street.

Winnipeg, MB CANADA, R3T 4C7

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COMPOSITION / INFORMATION ON INGREDIENTS

| INGREDIENT NAME/ | | | |
|---------------------|----------|-----------------|----------------|
| CAS NUMBER | WEIGHT % | OSHA PEL | ACGIH TLV |
| Toluol | 20 to 25 | = 200 ppm TWA | = 50 ppm TWA |
| 108-88-3 | | | |
| Isopropyl Alcohol | 20 to 25 | = 400 ppm TWA | = 200 ppm TWA |
| 67-63-0 | | = 980 mg/m³ TWA | = 400 ppm STEL |
| Methyl Ethyl Ketone | 25 to 30 | = 200 ppm TWA | = 200 ppm TWA |
| 78-93-3 | | = 590 mg/m³ TWA | = 300 ppm STEL |

Other Information:

This product contains amorphous silica however it is not in a respirable form.

HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

DANGER: Flammable liquid and vapor. Keep away from heat, sparks and flame. Off-white Liquid.

TOLUENE - Irritant; Absorbed through the skin; central nervous system effects; Harmful or fatal if swallowed; Aspiration hazard - if ingested do NOT induce vomiting, as this may cause chemical pheumonia. contact may cause eye, skin and mucous membrane irritation. Harmful if asorbed through the skin. Avoid prolonged breathing of vapors or mists. Inhalation may cause irritation, anesthetic effects (dizziness, nausea, headache, intoxication), and respiratory system effects. Excessive exposure may effect the liver and kidneys. Iiquid with a strong solvent odor. Flammable liquid and vapor. Vapors can travel a long distance to an ignitiion source and flash back.

Irritating to the eyes and respiratory tract. Acts as a central nervous system depressant

In case of fire, use carbon dioxide, alcohol foam, or dry chemical. Also contains Isopropyl Alcohol and Methyl Ethyl Ketone

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Inhalation: May irritate mouth, nose, and throat. Central Nervous System Depression:

signs/symptoms can include headache, dizziness, drowsiness, incoordination,

slowed reaction time, slurred speech, giddiness and unconsciousness.

High vapor concentrations may cause central nervous system depression.

TOLUENE - Repeated excessive exposures may cause Liver Effects or Damage.

Kidney Effects or Damage.

Skin Contact: IPA - Prolonged and repeated contact with skin can cause defatting and drying of

the skin resulting in skin irritation and dermatitis. TOLUENE - Skin absorption of material may produce systemic toxicity. MEK - Studies show that MEK causes no

or mild irritation.

Eye Contact: Causes moderate eye irritation. Liquid

Ingestion: TOLUENE - Harmful or Fatal if Swallowed. Ingestion of this material may cause

irritation to the mouth, throat and gastro-intestinal tract. Central nervous system (brain) effects; Nausea, Vomiting, and Diarrhea. Pulmonary aspiration hazard if swallowed and /or vomiting occurs - can enter lungs and cause damage. MEK - May be harmful if swallowed. Liquid can directly enter the lungs (aspiration) when

swallowed or vomited. Serious lung damage and possibly fatal chemical

pneumonia (chemical pheumonitis) can develop if this occurs.

4. FIRST AID MEASURES

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably

mouth-to-mouth. If breathing is difficult oxygen should be administered by qualified

personnel. Call a physician or transport to a medical facility.

Skin Contact: Remove contaminated clothing and launder before reuse. Remove contaminated

shoes and discard. For skin contact, wipe away excess material with dry towel. Then wash affected areas with plenty of water, and soap if available, for several

minutes. Get medical attention if irritation occurs.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15

minutes and get medical attention.

Ingestion: TOLUOL - Do not induce vomiting. Guard against aspiration into lungs by having

the individual turn on to their left side. If vomiting occurs spontaneously keep head below hips to prevent aspiration of liquid into the lungs. Obtain medical attention immediately. IPA - Do not induce vomiting. Guard against aspiration into lungs by having the individual turn on to their left side. If vomiting occurs spontaneously keep head below hips to prevent aspiration of liquid into the lungs.

Obtain medical attention immediately.

5. FIRE FIGHTING MEASURES

Lowest Component Flash Point (°F):

MEK = 25 F

Flash Point Method:

Closed Cup

FLAMMABILITY

(Lowest Component Information)

LFL (% Vol): UFL (% Vol): Toluene = 1.2% Toluene = 7.1%

Extinguishing Media:

Water fog, carbon dioxide, foam, dry chemical. TOLUOL - Water may be

effective for cooling, but may not effect extinguishment.

Special Fire Hazards: Vapors are heavier than air and can travel along the ground to a source of ignition

and flash back; they can accumulate in low lying areas. Containers can rupture in

a fire releasing toxic and corrosive gases.

Special Exposure Hazards: Warning. Flammable liquid and vapor. Clear fire area of unprotected personnel.

Do not enter confined fire space without full bunker gear, including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire exposed

containers with water.

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Special Protective Equipment: Fire fighters should wear full protective clothing, including self-contained breathing

equipment:

NFPA Rating: Health: 3 Flammability: 3 Reactivity: 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary

Measures:

Wear appropriate protective equipment (See Section 8).

Environmental Precautions:

Prevent from entering sewers, waterways or low areas. Prevent contamination of

soil.

Spill Procedures:

Remove all sources of ignition and ventilate the area. Soak up residue with an absorbant such as clay or sand. Place in a non-leaking container for proper disposal according to Federal, State and Local regulations. Do not discharge into waterways or sewage systems. Vapors are much heavier than air and as such will accumulate in low-lying areas, presenting a hazard to anyone entering such places. Low-lying areas should be ventillated and checked before permitting access.

7. HANDLING AND STORAGE

NORMAL HANDLING: Wear appropriate protective equipment. See Section 8 for normal handling

recommendations. Avoid contact with eyes, skin, and clothing. Use in well

ventilated area. Ground and bond containers before transferring liquid.

STORAGEKeep containers tightly closed. Store in a cool dry place. Ground equipment to prevent static build-up. Ground containers when pouring or transferring.

Keep in cool, dry, ventilated storage and in closed containers. Keep liquid and

vapor away from heat, sparks and flame.

Flammable Storage

EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use explosion proof equipment. Local exhaust ventilation designed for explosive

atmospheres. Good mechanical ventilation is necessary to remove fumes from work place to reduce fire and health hazards. Wear safety glasses or chemical

goggles and chemical resistant gloves.

Respiratory Protection: In operations where the exposure limits can be exceeded, wear a NIOSH

approved respirator selected by a technically qualified person. If a respirator is worn, OSHA requires compliance with its respiratory protection program (29 CFR

1910.134).

Eyes: Wear safety glasses or goggles to protect against exposure.

Gloves: Use Viton or 4H gloves.

Protective Clothing: Long sleeved clothing and Apron

Hygienic Work Practices: Use proper ventilation. Follow good industrial chemical hygiene practices. Safety

showers and evewash stations should be available. Educate and train employees

in safe use of product.



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PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: HAZY OFF WHITE SOLVENT ODOR Odor:

% Solids by Weight: 20% % Volatile by Volume: 85%

pH: Not Determined

Specific Gravity: 0.87

Density: 7.27 lbs/gal

Solubility in Water:

Molecular Weight: Not Determined VOCs (lbs/gallon): 5.81 lbs/gal

Evaporation Rate (Highest Component

Information):

(Normal Butyl Acetate = 1) MEK= 3.8

Boiling Point (°F) (Lowest Component

Information):

IPA = 82 F

Flash Point (°F/C) (Lowest Component

Information):

MEK = 25 F (-4 C)

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions of handling, use and transportation.

Hazardous Polymerization: Will not occur under normal conditions.

Conditions to Avoid: Avoid contact with heat, sparks, open flame, and static discharge.

Materials to Avoid: Strong oxidizing agents. Combustion of the dried polymer may release: Carbon Dioxide, Carbon

Hazardous Decomposition

Products:

Monoxide, Oxides of Nitrogen, Traces of HCN. Additional Guidelines: Not Applicable

11. TOXICOLOGICAL INFORMATION

Acute Health Effects of this product have not been determined. The following **Acute Effects:**

information is available on major components: MEK - LD50, Oral-Rat 2900 mg/kg; LD50, Dermal-Rabbit 5000 mg/kg; LD50, Inhalation-Rat 5000 ppm / 7 hr. TOLUENE - Causes severe skin irritation. Toxic if absorbed through the skin, Causes severe eve irritation. Toxic if inhaled. High concentrations are extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Toxic if swallowed. Exposure may cause: Lung irritation, chest pain and edema which may be fatal. Inhalation studies on toluene have demonstrated the development of inflammatory and uncerous lesions of the penis, prepuce and scrotum in animals. may cause central nervous system disturbances. LD50, Oral-Rat 636 mg/kg; LD50, Dermal-Rabbit 14100 UL/kg; LD50, Inhalation-Rat 49 gm / m3 / 4 hr. IPA - LD50, Oral-Rat 4720 mg/kg; LD50, Dermal-Rabbit 12900

mg/kg; LC50, Inhalation-Rat 12000 ppm / 8 hrs.

Issue date: September 5, 2014 Page: 4 of 6 **Chronic Effects:** Chronic Health Effects of this product have not been determined. The following

> information is available on major components: IPA - Target organs; Nerves, Kidneys, Cardiovascular System, G.I. System. TOLUENE - Breathing large amounts of toluene for short periods of time adversely effect the human nervous system, the kidneys, liver, and the heart. Repeatedly breathing large amounts of toluene as when "sniffing glue" or paint can cause permanent brain damage. Human exposure studies suggest that exposure to large amounts of toluene during pregnancy can adversely effect the developing fetus. MEK - Target organs

include central nervous system.

Aggravated Conditions: Unknown

Carcinogenicity: Carcinogenic effects of this product have not been determined. The following

information is available on major components: MEK - According to the information presently available Methyl Ethyl Ketone has not been tested for its ability to cause cancer in animals. TOLUENE - Not Classified as a Carcinogen. IPA - IARC Group

3 (Not Classifiable).

Reproductive/Developmental

Toxicity:

Reproductive / Developmental health effects of this product have not been determined. The following information is available on major components: MEK -There is limited evidence that Methyl Ethyl Ketone is a teratogen in animals. Until further testing has been done it should be treated as a possible teratogen in humans. TOLUENE - California Proposition 65 Reproductive Hazard. IPA - was not a primary reproductive or developmental toxicant in animal studies, but pregnant rabbits seemed more susceptible to IPA toxicity than non-pregnant

animals.

Mutagenicity: Mutagenicity of this product has not been determined. The following information is

> available on major components: TOLUENE - negative MEK - No additional test data found for this product. IPA - No additional test data found for this product.

Other: None known.

ECOLOGICAL INFORMATION

| INGREDIENT NAME/ | Toluol |
|-------------------------|---|
| CAS NUMBER | 108-88-3 (20 to 25) |
| Water Flea Data | = 11.3 mg/L EC50 water flea 48 h |
| | = 310 mg/L EC50 water flea 48 h |
| Microtox Data | = 19.7 mg/L EC50 Photobacterium phosphoreum 30 min |
| Freshwater Fish Species | = 24.0 mg/L LC50 bluegill 96 h Static |
| Data | = 24.0 mg/L LC50 rainbow trout 96 h Static |
| | = 25 mg/L LC50 fathead minnow (1 day old) 96 h flow-through |
| | = 31.7 mg/L LC50 fathead minnow 96 h flow-through |
| | |

| INGREDIENT NAME/ | Isopropyl Alcohol |
|-------------------------|--|
| CAS NUMBER | 67-63-0 (20 to 25) |
| Microtox Data | = 35390 mg/L EC50 Photobacterium phosphoreum 5 min |
| Freshwater Fish Species | = 61200 mg/L LC50 fathead minnow (31 days old) 96 h flow-through |
| Data | = 94900 mg/L LC50 fathead minnow (29 days old) 96 h flow-through |
| INGREDIENT NAME/ | Methyl Ethyl Ketone |
| CAS NUMBER | 78-93-3 (25 to 30) |
| Water Flea Data | = 520 mg/L EC50 water flea 48 h |
| 14: / D / | 0.400 # 5050 BL + L + ' + L + OO - '- |

Microtox Data

= 3403 mg/L EC50 Photobacterium phosphoreum 30 min = 3426 mg/L EC50 Photobacterium phosphoreum 5 min

= 1690 mg/L LC50 bluegill 96 h Freshwater Fish Species

Data = 3220 mg/L LC50 fathead minnow 96 h flow-through

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13. DISPOSAL CONSIDERATIONS

Other Disposal Considerations: None

Contaminated Packaging:

Empty drums may contain harmful vapors and residue.If empty container retains product residues, all label precautions must be observed. Transport with all closures in place. Dispose according to national or local regulations. Empty containers may contain explosive vapors. Keep from spark, flame, and heat

sources. Do not Cut or Weld.

RCRA Status: (Classification applies to the product as sold.)

D001 (Ignitable) D035 (Methyl Ethyl Ketone)

14. TRANSPORT INFORMATION

DOT:

DOT Shipping Name:COATING SOLUTIONDOT Information:3, UN1139, PG IIDOT Label:FLAMMABLE LIQUID

DOT ERG: 127

15. REGULATORY INFORMATION

U.S.REGULATORY RULES

TSCA Inventory Status:

All components are included in the EPA Toxic Substance Control Act (TSCA)

Chemical Substance Inventory.

| INGREDIENT NAME/ CAS NUMBER | CERCLA Reportable Quantity | CERCLA/SARA - 302 Ext. Haz. Substances | TSCA - Sect. 12(b) Export Notification | SARA 313 Chemicals |
|---|--|---|--|--|
| Toluol 108-88-3 (20 to 25) | = 0.454 kg final RQ = 1 lb final RQ = 10 lb final RQ = 100 lb final RQ = 1000 lb final RQ = 4.54 kg final RQ = 45.4 kg final RQ = 454 kg final RQ | | | = 1.0 percent de minimis concentration |
| Isopropyl Alcohol 67-63-0 (20 to 25) | | | | = 1.0 percent de minimis concentration only if manufactured by the strong acid process, no supplier notification |
| Methyl Ethyl Ketone 78-93-3 (25 to 30) | = 100 lb final RQ = 2270 kg final RQ = 45.4 kg final RQ = 5000 lb final RQ | | | = 1.0 percent de minimis concentration |

STATE REGULATIONS

PROPOSITION 65 STATUS:

WARNING: One or more components present in this product are known to the State of California to cause cancer and/or reproductive toxicity and is subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986.

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| INGREDIENT NAME/ CAS NUMBER | FL Hazardous Substance List | RI Hazardous Substance List | MN Right to Know List | NJ Right to Know List | MA Right to Know List | PA Right to Know List |
|---|--------------------------------|--------------------------------|--------------------------|---|--------------------------|--------------------------|
| Toluol 108-88-3 (20 to 25) | Not Present | Toxic, Flammable; skin | Skin | sn 1866 | Present | environmental hazard |
| Isopropyl Alcohol 67-63-0 (20 to 25) | Not Present | Toxic, Flammable | Present | sn 1076; sn 2381 (strong-acid process manufacture) | Present | environmental hazard |
| Methyl Ethyl Ketone 78-93-3 (25 to 30) | Not Present | Toxic, Flammable | Present | sn 1258 | Present | environmental hazard |

CANADIAN REGULATIONS

Canadian Inventory: All components are included on the Canadian DSL.

WHMIS Hazard Classification: B2 FLAMMABLE LIQUIDS D2A VERY TOXIC MATERIALS

D2B TOXIC MATERIALS



OTHER REGULATIONS

16. OTHER INFORMATION

The following has been revised General revision and clarification.

since the last issue of this

MSDS:

Label Number:

#28

Additional Information:

Not Applicable

Important Note:

This company makes no warranty regarding the safety of this product when used

incorrectly.

Disclaimer: The information contained herein is accurate to the best of our knowledge. My Company makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances.

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