

1. Product and Company Identification

Material name L-160 Version #

Issue date 03-20-2013 **Revision date** 03-20-2013 Supersedes date 12-07-11 **Chemical name** Resin Mixture **Chemical description** Hydrocarbon Resin

CAS# Mixture Product code 900-0010

Product use Industrial Leak Sealant

Manufacturer information

Manufacturer/Supplier Team Industrial Services, Inc.

200 Hermann Drive, Alvin, Texas 77511

CHEMTREC - 24 HOURS **Emergency Contact**

> USA: CHEMTREC: 800-424-9300 International: 703-527-3887 (Collect)

2. Hazards Identification

Physical state Liquid.

Appearance White viscous liquid.

Emergency overview WARNING

> Flammable liquid and vapor. Harmful if swallowed, can enter lungs and cause damage. May cause skin and eye irritation. Vapors may cause drowsiness and dizziness. May adversely affect

the developing fetus based on animal data.

OSHA regulatory status

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects

Routes of exposure Eye contact. Ingestion. Inhalation. Skin contact.

Eyes May cause eye irritation.

Skin May cause skin irritation. Prolonged or repeated contact may dry skin and cause dermatitis. The

product contains organic solvents which may be absorbed into the body by skin contact and

cause permanent damage to the nervous system, including the brain.

Inhalation Vapors may cause drowsiness and dizziness.

Ingestion Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia. Components of the product may be absorbed into the body by ingestion.

Target organs Central nervous system. Eyes. Skin.

Chronic effects May adversely affect the developing fetus based on animal data. Danger of serious damage to

health by prolonged exposure.

Signs and symptoms Skin irritation. Irritation of eyes and mucous membranes. Symptoms include itching, burning,

redness and tearing. Shortness of breath.

Potential environmental effects The product components are not classified as environmentally hazardous. However, this does not

exclude the possibility that large or frequent spills can have a harmful or damaging effect on the

environment.

3. Composition / Information on Ingredients

Components		CAS#	Percent
Toluene		108-88-3	50-80
Polymer resin		N/A	25-50
Composition comments	All concentrations are in percent by weight		

Composition comments All concentrations are in percent by weight.

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4. First Aid Measures

First aid procedures

Eye contact Flush thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to

do. Get medical attention if irritation develops or persists.

Skin contact Remove contaminated clothing and shoes. Flush thoroughly with water for at least 15 minutes. If

irritation occurs, get medical assistance.

Inhalation Move to fresh air. Get medical attention if any discomfort occurs.

Ingestion Rinse mouth thoroughly with water and give large amounts of milk or water, if person is conscious.

Only induce vomiting at the instruction of medical personnel. If vomiting occurs, keep head low so

that stomach content does not get into the lungs. Get medical attention immediately.

Notes to physician Be aware that symptoms of chemical pneumonia (shortness of breath) may occur several hours

after exposure.

General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

5. Fire Fighting Measures

Flammable properties Intensive heat and fire may release toxic and corrosive gases.

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

Extinguish with foam, carbon dioxide, dry powder or water fog.

No restrictions known.

Protection of firefighters

Specific hazards arising from the chemical

Protective equipment and

Protective equipment and precautions for firefighters

Solvent vapors may form explosive mixtures with air. By heating and fire, corrosive vapors/gases

may be formed.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

In the event of fire, cool tanks with water spray. Move containers from fire area if you can do it

Fire fighting

equipment/instructions

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

Hazardous combustion

products

Carbon oxides.

without risk.

6. Accidental Release Measures

Personal precautions Ventilate closed spaces before entering. Avoid inhalation of vapors and contact with skin and

eyes. Wear appropriate protective equipment and clothing during clean-up. See Section 8 of the

MSDS for Personal Protective Equipment.

Environmental precautions

Methods for containment

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements

or confined areas.

Methods for cleaning up

Absorb with earth, sand or other non-combustible material and transfer to containers for later

disposal. After removal flush contaminated area thoroughly with water. This material and its

container must be disposed of as hazardous waste.

Never return spills to original containers for re-use.

7. Handling and Storage

Handling Pregnant or breastfeeding women must not handle this product. Avoid inhalation of vapors and

contact with skin and eyes. Use only with adequate ventilation. Wear approved safety goggles. Wear protective gloves and appropriate clothing to prevent skin contact. Observe good industrial

hygiene practices.

Storage Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from

food, drink and animal feedingstuffs.

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8. Exposure Controls / Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value
Toluene (CAS 108-88-3)	TWA	20 ppm

US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Туре	Value
Toluene (CAS 108-88-3)	Ceiling	300 ppm
	TWA	200 ppm

Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

Components	Туре	Value	
Toluene (CAS 108-88-3)	TWA	188 mg/m3	
		50 ppm	

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

Components	Туре	Value
Toluene (CAS 108-88-3)	TWA	20 ppm

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Components	Туре	Value	
Toluene (CAS 108-88-3)	TWA	20 ppm	

Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

Components	Туре	Value
Toluene (CAS 108-88-3)	TWA	188 mg/m3
		50 ppm

Mexico. Occupational Exposure Limit Values

Components	Туре	Value	
Toluene (CAS 108-88-3)	TWA	188 mg/m3	
		50 ppm	

Engineering controls Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of

inhalation of vapors.

Personal protective equipment

Eye / face protection Wear approved safety goggles.

Skin protection Wear protective gloves. Polyvinyl alcohol gloves are recommended. Be aware that the liquid may

penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier. Wear appropriate chemical resistant clothing to prevent any possibility of skin

contact.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. If airborne concentrations are above the

applicable exposure limits, use NIOSH approved respiratory protection.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Private clothes and working clothes should be kept

separately.

9. Physical & Chemical Properties

Appearance White viscous liquid.

Physical state Liquid.

Form Viscous liquid.

Color White.
Odor Solvent.

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Odor threshold 0.5 - 23 ppm (Toluene)

pH Not available.Vapor pressure 6 mm Hg @ 68 FVapor density Not available.

Boiling point 230 °F (110 °C) (solvent)

Melting point/Freezing point Not available.

Solubility (water) Negligible.

Specific gravity 0.9

Flash point < 50 °F (< 10 °C)
Flammability limits in air,
upper, % by volume

Not available.

Flammability limits in air,

lower, % by volume

Not available.

Auto-ignition temperature Not available.

Evaporation rate 1 (Butyl acetate=1)

10. Chemical Stability & Reactivity Information

Chemical stability Material is stable under normal conditions.

Conditions to avoidFlames and sparks.Incompatible materialsStrong oxidizing agents.

Hazardous decomposition

products

Hydrocarbons. Carbon monoxide. Carbon dioxide. Acrolein. Acids. Ketones. Aldehydes.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

11. Toxicological Information

Toxicological data

Components	Species	Test Results
Toluene (CAS 108-88-3)		
Acute		
<i>Dermal</i> LD50	Rabbit	14.1 ml/kg
Inhalation LC50	Rat	49000 mg/m³, 4 Hours
<i>Oral</i> LD50	Rat	636 mg/kg
Sensitization	Not a skin sensitizer.	

Acute effects Causes skin and eye irritation. May cause central nervous system effects. May cause discomfort if

swallowed.

Local effectsVapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Components of the product may be absorbed into the body by inhalation, ingestion and through

the skin.

Chronic effects Danger of serious damage to health by prolonged exposure. Organic solvents may be absorbed

into the body by inhalation and ingestion and cause permanent damage to the nervous system,

including the brain.

Carcinogenicity Not classified.

ACGIH Carcinogens

Toluene (CAS 108-88-3)

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Toluene (CAS 108-88-3) 3 Not classifiable as to carcinogenicity to humans.

Epidemiology None known. **Mutagenicity** Not available.

Neurological effects May cause central nervous system disorder (e.g., narcosis involving a loss of coordination,

weakness, fatigue) and/or damage.

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Skin irritation. Irritation of eyes and mucous membranes. Symptoms include itching, burning, redness and tearing. Be aware that symptoms of chemical pneumonia (shortness of breath) may occur several hours after exposure.

12. Ecological Information

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ComponentsSpeciesTest ResultsToluene (CAS 108-88-3)AquaticCrustaceaEC50Water flea (Daphnia magna)5.46 - 9.83 mg/l, 48 hoursFishLC50Coho salmon,silver salmon (Oncorhynchus kisutch)5.5 mg/l, 96 hours

Ecotoxicity The product components are not classified as environmentally hazardous. However, this does not

exclude the possibility that large or frequent spills can have a harmful or damaging effect on the

environment.

Environmental effectsAn environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Persistence and degradability No data available.

Bioaccumulation / No data available on bioaccumulation. **Accumulation**

Partition coefficient

Toluene (CAS 108-88-3) 2.73

Mobility in environmentalThe product has poor water-solubility. The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

13. Disposal Considerations

Waste codes Not regulated.

Disposal instructions Dispose of this material and its container to hazardous or special waste collection point. Disposal

recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport Information

DOT

Basic shipping requirements:

UN number UN1294

Proper shipping name TOLUENE SOLUTION

Hazard class Packing 3 group Environmental |

hazards

Marine pollutant No

Additional information:

Special provisions IB2, T4, TP1

Packaging exceptions 150
Packaging non bulk 202
Packaging bulk 242

IATA

UN number UN1294

UN proper shipping name TOLUENE SOLUTION

Transport hazard class(es) 3
Packing group II
Environmental hazards No
ERG code 3L

IMDG

UN number UN1294

UN proper shipping name TOLUENE SOLUTION

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Transport hazard class(es) 3 Packing group Ш

Environmental hazards

Marine pollutant Nο F-E, S-D **EmS**

TDG

Proper shipping name **TOLUENE SOLUTION**

Hazard class UN

UN1294 number Packing

group Marine pollutant No

15. Regulatory Information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard 29 CFR 1910.1200 (OSHA) and 8 CCR § 5194 (Cal/OSHA).

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Toluene (CAS 108-88-3)

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration

1.0 % Toluene (CAS 108-88-3)

US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Toluene (CAS 108-88-3) Listed.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

Toluene: 1000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

> Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

Section 302 extremely hazardous substance (40 CFR 355, Appendix A)

No

Section 311/312 (40 CFR

370)

Yes

Drug Enforcement

Administration (DEA) (21 CFR

1308.11-15)

Not controlled

Canadian regulations This product has been classified in accordance with hazard criteria of the Controlled Products

Regulations and the MSDS contains all the information required by the Controlled Products

Regulations.

WHMIS status Controlled

WHMIS classification B2 - Flammable Liquids

D2A - Other Toxic Effects-VERY TOXIC D2B - Other Toxic Effects-TOXIC

WHMIS labeling





Inventory status

Country(s) or region Inventory name On inventory (yes/no)* Australian Inventory of Chemical Substances (AICS) Australia Yes Canada Domestic Substances List (DSL) Yes Canada Non-Domestic Substances List (NDSL) No

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Country(s) or regionInventory nameOn inventory (yes/no)*ChinaInventory of Existing Chemical Substances in China (IECSC)Yes

Yes

Yes

Yes

European Inventory of Existing Commercial Chemical

Substances (EINECS)

EuropeEuropean List of Notified Chemical Substances (ELINCS)NoJapanInventory of Existing and New Chemical Substances (ENCS)YesKoreaExisting Chemicals List (ECL)Yes

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

State regulations

US - California Hazardous Substances (Director's): Listed substance

Toluene (CAS 108-88-3) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Toluene (CAS 108-88-3) Listed.

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Toluene (CAS 108-88-3) Listed: January 1, 1991 Developmental toxin.

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Toluene (CAS 108-88-3)

Listed: August 7, 2009 Female reproductive toxin.

US - New Jersey RTK - Substances: Listed substance

Toluene (CAS 108-88-3) Listed.

US. Massachusetts RTK - Substance List

Toluene (CAS 108-88-3) Listed.

US. New Jersey Worker and Community Right-to-Know Act

Toluene (CAS 108-88-3) 500 LBS

US. Pennsylvania RTK - Hazardous Substances

Toluene (CAS 108-88-3) Listed.

16. Other Information

Further information HMIS® is a registered trade and service mark of the NPCA.

I - Safety Glasses, Gloves, Dust, Vapor Respirator

HMIS® ratings Health: 2*

Flammability: 1 Physical hazard: 0 Personal protection: I

NFPA ratings Health: 2

Flammability: 1 Instability: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available.

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