

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **LIQUID WRENCH PENETRANT**

Product Code(s) : L106C, L112C, L112/6C

Recommended use of the chemical and restrictions on use

: Multi-purpose penetrating oil (aerosol).
Restriction on use: None known

Chemical family : Mixture of : Propellant; Aromatic Hydrocarbon; aliphatic glycol ether

Blumenthal Brands Integrated, LLC

00 adiator d.

Indian Trail, C 280

e site: .sol e ithB.com

mail: sds sol e ithB.com

Customer er ice / Technical :(704) 821-7643

mergency phone num er :INFOTRAC (Domestic) (800)-535-5053

:INFOTRAC (International) (352)-323-3500

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Clear light yellow. aerosol .Pleasant odour.

Most important hazards:

Extremely flammable aerosol May be ignited by open flames and sparks. Contents under pressure. Container may explode if heated. Aspiration hazard. Can enter the lungs and cause damage. Occupational exposure to the substance or mixture may cause adverse effects. Refer also to TOXICOLOGICAL INFORMATION (Section 11). Toxic to aquatic life with long lasting effects. Avoid release to the environment. See Section 12 for more environmental information.

This product is packaged and sold as a consumer product. The Hazardous Products Act (HPA) and Hazardous Products Regulations (HPR) do not apply to manufactured articles [Hazardous Products Act Section 12(i)]. The below WHMIS 2015 classification and labeling information is being provided for informational purposes.

This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification :

Flammable Aerosol - Category 1

Gases under pressure

Aspiration Toxicity - Category 1

Label elements

Hazard pictogram(s)



Signal Word

DANGER!

Hazard statement(s)

Extremely flammable aerosol
Contains gas under pressure; may explode if heated.
May be fatal if swallowed and enters airways.

Precautionary statement(s)

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Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification: Toxic fumes may be released during a fire. Direct eye contact may cause slight or mild, transient irritation. Direct skin contact may cause slight or mild, transient irritation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration(% by weight)</u>
Hydrotreated light petroleum distillates	Distillates (petroleum), hydrotreated light	64742-47-8	80.0 - 100.0
Tripropylene glycol methyl ether	[2-(2-methoxymethylethoxy)methyl ethoxy]propanol	25498-49-1	7.0 - 13.0
Carbon dioxide	Carbonic anhydride	124-38-9	1.0 - 5.0

The exact concentrations of the above listed chemicals are being withheld as a trade secret. Note: This product is packaged and sold as a consumer product. The Hazardous Products Act (HPA) does not apply to consumer products [Hazardous Products Act Section 12(j)].

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do not induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs.
- Inhalation* : IF INHALED: Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. If symptoms develop, seek medical attention.
- Skin contact* : IF ON SKIN: Wash with plenty of soap and water. If irritation persists, seek prompt medical attention. Wash contaminated clothing before reuse.
- Eye contact* : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Flush eyes with water for at least 15 minutes. If irritation persists, seek prompt medical attention.

Most important symptoms and effects, both acute and delayed

- : May be fatal if swallowed and enters airways. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Indication of any immediate medical attention and special treatment needed

- : Immediate medical attention is required. Aspiration hazard Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. Provide general supportive measures and treat symptomatically. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

- : Dry chemical, foam, carbon dioxide and water fog.

Unsuitable extinguishing media

- : Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability

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: Extremely flammable aerosol May be ignited by open flames and sparks. Contains gas under pressure; may explode if heated. Vapours are heavier than air and collect in confined and low-lying areas. Material will float on water and can be re-ignited at the water's surface. This product is contained under pressure, and could explode when exposed to heat and flame.

Hazardous combustion products

: Carbon oxides; Nitrogen oxides (NOx); Boron oxides.; Aldehydes; Hydrocarbons; Hydrogen fluoride; Fluorinated products.; Other unidentified organic compounds.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Normal protective clothing (bunker gear) may not be adequate. A full-body encapsulating chemical protective suit may be necessary.

Special fire-fighting procedures

: Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Shield personnel to protect from venting or rupturing containers. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: All persons dealing with the clean-up should wear the appropriate personal protective equipment. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up.

Environmental precautions : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

Methods and material for containment and cleaning up

: Ventilate the contaminated area. Stop the flow of material, if this is without risk. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Use only non-sparking tools.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Use only outdoors or in a well-ventilated area. Wear suitable protective equipment during handling. Wear protective gloves and eye/face protection. Avoid breathing mist or spray. Avoid contact with skin, eyes and clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact with incompatible materials. Always replace cap after use. Wash thoroughly after handling.

Conditions for safe storage : Store in a cool, dry, well-ventilated area. Store locked up. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area. Protect from sunlight and do not expose to temperatures exceeding 50 °C/122 °F. Keep away from incompatibles.

Incompatible materials : Strong oxidizing agents; Bases; Acids

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Exposure Limits:</u>				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>

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Hydrotreated light petroleum distillates	200 mg/m ³ (as total hydrocarbon vapour)	N/Av	N/Av	N/Av
Tripropylene glycol methyl ether	N/Av	N/Av	N/Av	N/Av
Carbon dioxide	5000 ppm	30 000 ppm	5000 ppm (9000 mg/m ³)	N/Av

Exposure controls**Ventilation and engineering measures**

: Use only outdoors or in a well-ventilated area. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection : If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Refer to CSA Z94.3 or other appropriate standards. Advice should be sought from respiratory protection specialists.

Skin protection : Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye / face protection : Wear eye/face protection. Wear as appropriate: Safety glasses with side shields ;Tightly fitting safety goggles .

Other protective equipment : Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations

: Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mist or spray. Do not eat, drink or smoke when using this product. Wash hands thoroughly after using this product, and before eating, drinking or smoking. Remove and wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Clear to yellow liquid, contained in a pressurized aerosol can.

Odour : Pleasant odour.

Odour threshold : N/Av

pH : N/Av

Melting/Freezing point : N/Av

Initial boiling point and boiling range

: 160°C (concentrate)

Flash point : 93.3°C (concentrate)

Flashpoint (Method) : Tag closed cup

Evaporation rate (BuAe = 1) : N/Av

Flammability (solid, gas) : Extremely flammable aerosol

Lower flammable limit (% by vol.)
: 0.7%

Upper flammable limit (% by vol.)
: 5%

Oxidizing properties : None.

Explosive properties : Aerosols are sensitive to mechanical impact. Closed containers are contained under pressure and may explode if exposed to excess heat for a prolonged period of time.

Vapour pressure : N/Av

Vapour density : N/Av

Relative density / Specific gravity
: 0.89

Solubility in water : Insoluble.

Other solubility(ies) : N/Av

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution
: N/Av

Auto-ignition temperature : Not available.

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Decomposition temperature : N/Av
Viscosity : N/Av
Volatiles (% by weight) : 0 %
Volatile organic Compounds (VOC's)
: N/Av
Absolute pressure of container
: N/Av
Flame projection length : > 45.7 cm, < 100 cm
Other physical/chemical comments
: Chemical heat of combustion: 33.98 kJ/g

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not normally reactive.
Chemical stability : Stable under normal conditions. Aerosols are sensitive to mechanical impact.
Possibility of hazardous reactions
: Hazardous polymerization does not occur.
Conditions to avoid : Avoid heat and open flame. Keep away from direct sunlight. Do not use in areas without adequate ventilation.
Incompatible materials : Strong oxidizing agents; Bases; Acids
Hazardous decomposition products
: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure:**

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES
Routes of exposure skin absorption
: NO

Potential Health Effects:**Signs and symptoms of short-term (acute) exposure***Sign and symptoms Inhalation*

: Inhalation of mist causes irritation of respiratory system. If mists are inhaled, may cause pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. In extremely high concentrations, product may act as an asphyxiant and cause increased breathing and pulse rates, fatigue and unconsciousness.

Sign and symptoms ingestion

: Not an expected route of entry under normal conditions of use. However, if the product is sprayed directly into mouth and large amounts of the liquid concentrate are swallowed, it may cause irritation to the mouth, throat and stomach. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. May be an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Sign and symptoms skin

: May cause mild skin irritation. Prolonged contact, may be more irritating. If product is sprayed directly on skin, symptoms of frostbite may be experienced including numbness, prickling and itching.

Sign and symptoms eyes

: May cause mild eye irritation. If product is sprayed directly into the eyes, could cause freezing of the eye.

Potential Chronic Health Effects

: Prolonged skin contact may cause dermatitis (rash), characterized by red, dry, itching skin. Repeated or prolonged exposure may result in kidney effects.

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- Mutagenicity** : Not expected to be mutagenic in humans.
- Carcinogenicity** : Contains the following chemicals listed as confirmed animal carcinogens (A3) by ACGIH: Hydrotreated light petroleum distillates Not classifiable as a human carcinogen. No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- Reproductive effects & Teratogenicity** : Not expected to have other reproductive effects.
- Sensitization to material** : Not expected to be a skin or respiratory sensitizer.
- Specific target organ effects** : Eyes, skin, respiratory system, digestive system, central nervous system. This material is not classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).
- Medical conditions aggravated by overexposure** : None known or reported by the manufacturer.
- Synergistic materials** : None known or reported by the manufacturer.
- Toxicological data** : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Hydrotreated light petroleum distillates	>6.03 mg/L (aerosol)	>5000 mg/kg	>2000 mg/kg
Tripropylene glycol methyl ether	> 50 mg/L (aerosol)	3100 - 3900 mg/kg	15 440 mg/kg
Carbon dioxide	200 000 ppm/2H (141 421 ppm/4H)	N/Ap(gas)	N/Ap(gas)

Other important toxicological hazards

- : May cause central nervous system effects.

SECTION 12. ECOLOGICAL INFORMATION

- Ecotoxicity** : Toxic to aquatic life with long lasting effects. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. The product contains the following substances which are hazardous for the environment: Distillates (petroleum), hydrotreated light

See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Hydrotreated light petroleum distillates	64742-47-8	45 mg/L (Fathead minnow)	N/Av	None.
Tripropylene glycol methyl ether	25498-49-1	11 619 mg/L (Fathead minnow)	N/Av	None.
Carbon dioxide	124-38-9	N/Ap	N/Ap	N/Ap

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Daphnia</u>		
		<u>EC50 / 48h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Hydrotreated light petroleum distillates	64742-47-8	N/Av	N/Av	N/Av
Tripropylene glycol methyl ether	25498-49-1	> 10 000 mg/L (Daphnia magna)	N/Av	None.

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Carbon dioxide	124-38-9	N/Av	N/Av	N/Av
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<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Hydrotreated light petroleum distillates	64742-47-8	N/Av	N/Av	N/Av
Tripropylene glycol methyl ether	25498-49-1	21 010 mg/L/96hr (Green algae)	N/Av	None.
Carbon dioxide	124-38-9	N/Av	N/Av	N/Av

Persistence and degradability

: The product itself has not been tested.
The following ingredients are considered to be readily biodegradable: Distillates (petroleum), hydrotreated light; Tripropylene glycol monomethyl ether. Distillates (petroleum), hydrotreated light is considered readily biodegradable, but failing the 10 day window (OECD).

Bioaccumulation potential

: The product itself has not been tested. See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/ater (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Hydrotreated light petroleum distillates (CAS 64742-47-8)	5.1-8.8	N/Av
Tripropylene glycol methyl ether (CAS 25498-49-1)	0.309	3.16
Carbon dioxide (CAS 124-38-9)		no bioaccumulation

Mobility in soil

: The product itself has not been tested.

Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS


Handling for Disposal

: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8. This material and its container must be disposed of in a safe way. Empty containers retain residue and can be dangerous. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Methods of Disposal

: Dispose in accordance with all applicable federal, state, provincial and local regulations.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	UN1950	AEROSOLS	2.1	none	
TDG Additional information	May be shipped as LIMITED QUANTITY when transported in containers no larger than 1.0 Litre, in packages not exceeding 30 kg gross mass. Under the TDGR, refer to Section 1.17 for additional exemption information, if shipping under this exemption.				

Special precautions for user

: Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame - No smoking.

Environmental hazards

: This product meets the criteria for an environmentally hazardous material according to the IMDG Code. See Section 12 for more environmental information.

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Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.

SECTION 15 - REGULATORY INFORMATION**Canadian Information:**

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

Canadian National Pollutant Release Inventory (NPRI): This product contains the following substances listed on the NPRI:

Hydrotreated light petroleum distillates (Part 5: Other groups and mixtures)

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	<u>CAS #</u>	<u>European EINECs</u>	<u>Australia AICS</u>	<u>Philippines PICCS</u>	<u>Japan ENCS</u>	<u>Korea KECI/KECL</u>	<u>China IECSC</u>	<u>NewZealand IOC</u>
Hydrotreated light petroleum distillates	64742-47-8	265-149-8	Present	Present	(9)-1700	KE-12550	Present	No information available.
Tripropylene glycol methyl ether	25498-49-1	247-045-4	Present	Present	(7)-97; (2)-438; (2)-348	KE-23313	Present	May be used as a single component chemical under an appropriate group standard.
Carbon dioxide	124-38-9	204-696-9	Present	Present	(1)-310; (1)-169	KE-04683	Present	HSR001018

SECTION 16. OTHER INFORMATION**Legend**

: ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services

CSA: Canadian Standards Association

HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

Inh: Inhalation

LC: Lethal Concentration

LD: Lethal Dose

MSHA: Mine Safety and Health Administration

N/Ap: Not Applicable

N/Av: Not Available

NIOSH: National Institute of Occupational Safety and Health

NTP: National Toxicology Program

OECD: Organisation for Economic Co-operation and Development

OSHA: Occupational Safety and Health Administration

PEL: Permissible exposure limit

RTECS: Registry of Toxic Effects of Chemical Substances

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values

TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System

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- References** :
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2019.
 2. International Agency for Research on Cancer Monographs, searched 2019.
 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2019 (Chempendium, HSDB and RTECs).
 4. Safety Data Sheets from manufacturer.
 5. US EPA Title III List of Lists - June 2019 version.
 6. California Proposition 65 List - June 2019 version.
 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2019.

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Other special considerations for handling
: Provide adequate information, instruction and training for operators.

<p><u>Prepared for:</u> Blumenthal Brands Integrated, LLC 600 Radiator Rd Indian Trail, NC 28079 Telephone: (704) 821-7643 (Mon. - Fri., 8 AM - 5 PM) Please direct all enquiries to Blumenthal Brands, LLC</p>	
<p><u>Prepared by:</u> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.); (888) 977-4834 (Canada) http://www.thecompliancecenter.com</p>	

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