

SECTION 1: Identification**1.1. Product identifier**

Product form : Mixture
Trade name : Truflex/Pang Butyl Liner Sealer
Product code : BLRSF/QT, BLRSF/PT

1.2. Recommended use and restrictions on use

Recommended use : Tire repair adhesive
Restrictions on use : No additional information available

1.3. Supplier**Manufacturer**

Tech International
200 East Coshocton Street
Johnstown, OH 43031, USA
1-740-967-9015
www.tech-international.com

1.4. Emergency telephone number

Emergency number CHEMTREC : Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1-703-527-3887
Local: +1 703-741-5970

SECTION 2: Hazard identification**2.1. Classification of the substance or mixture****Classification (GHS CA)**

Flammable liquids Category 2	H225	Highly flammable liquid and vapor
Skin corrosion/irritation Category 2	H315	Causes skin irritation
Skin sensitization, Category 1	H317	May cause an allergic skin reaction
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336	May cause drowsiness or dizziness
Hazardous to the aquatic environment – Chronic Hazard Category 2	H411	Toxic to aquatic life with long lasting effects

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements**GHS CA labeling**

Hazard pictograms (GHS CA) :



Signal word (GHS CA) : Danger

Hazard statements (GHS CA) : H225 - Highly flammable liquid and vapor
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H336 - May cause drowsiness or dizziness
H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS CA) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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P261 - Avoid breathing vapors.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P403+P235 - Store in a well-ventilated place. Keep cool
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Heptane, branched, cyclic and linear	Naphtha (petroleum), hydrotreated light, Low boiling point hydrogen treated naphtha, [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C4 through C11 and boiling in the range of approximately minus 20°C to 190°C (-4°F to 374°F).]	CAS-No.: 64742-49-0	60 - 80	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Heptane	heptane, n-heptane	CAS-No.: 142-82-5	0.5 - 5	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Di(benzothiazol-2-yl) disulphide	-	CAS-No.: 120-78-5	0.1 - 1	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Tetramethylthiuram disulphide	thiram (ISO), tetramethylthiuram disulphide	CAS-No.: 137-26-8	0.1 - 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Comments : The exact percentage (concentration) in the composition has been withheld as a trade secret in accordance with the amended HPR as of April 2018

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : If inhaled and if breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary. If experiencing respiratory symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : Wash skin thoroughly with mild soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Do not induce vomiting. Rinse mouth out with water. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause drowsiness or dizziness. In high concentrations vapors cause anesthetic and narcotic effect.

Symptoms/effects after skin contact : Causes skin irritation. Redness. Itching. Swelling. May cause an allergic skin reaction. Skin rash/inflammation.

Symptoms/effects after eye contact : Lacrimation. redness, itching, tears. Blurred vision.

Symptoms/effects after ingestion : Ingestion may cause nausea, vomiting and diarrhea.

4.3. Immediate medical attention and special treatment, if necessary

Other medical advice or treatment : Treat symptomatically.

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SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Dry powder. Carbon dioxide. Water spray. Foam. Use extinguishing agent suitable for surrounding fire.

5.2. Unsuitable extinguishing media

Unsuitable extinguishing media : Do not use a heavy water stream.

5.3. Specific hazards arising from the hazardous product

Fire hazard : Highly flammable liquid and vapor. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors. Heating will cause a rise in pressure with a risk of bursting. In case of fire and/or explosion do not breathe fumes.

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon dioxide. Carbon monoxide.

5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Evacuate the danger area. Eliminate all ignition sources if safe to do so. Move containers from fire area if it can be done without personal risk. Use water spray or fog for cooling exposed containers. Fight fire from safe distance and protected location. Use extinguishing media appropriate for surrounding fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Wear a self contained breathing apparatus. Wear fire/flame resistant/retardant clothing. Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : No flames, no sparks. Eliminate all sources of ignition. Use special care to avoid static electric charges. Avoid all contact with skin, eyes, or clothing.

6.2. Methods and materials for containment and cleaning up

For containment : Stop leak, if possible without risk. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Remove ignition sources. Caution : this product can cause the floor to be slippery.

Methods for cleaning up : Move containers from spill area. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Clean contaminated surfaces with an excess of water. Prevent entry to sewers and public waters. Use non-sparking tools.

Other information : Dispose of via an authorised person/ licensed waste disposal contractor or by other suitable waste treatment techniques. Dispose of materials or solid residues at an authorized site.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Ensure good ventilation of the work station. Provide local exhaust or general room ventilation. Do not breathe vapors. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing.

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Precautions for safe handling	: Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharge. Use explosion-proof equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not re-use container for any purpose.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Strong oxidizers. Store in a dry place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from food, drink and animal feedingstuffs. Keep container tightly closed. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store in accordance with local, regional, national or international regulation. Do not store in unlabelled containers.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Heptane (142-82-5)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Heptane, all isomers
OEL TWA	1640 mg/m ³
OEL TWA	400 ppm
OEL STEL	2050 mg/m ³
OEL STEL	500 ppm
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
Local name	Heptane (all isomers) - n-Heptane
VECD (OEL STEV)	500 ppm
VEMP (OEL TWAEV)	400 ppm
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Heptane, Isomers
OEL TWA	400 ppm
OEL STEL	500 ppm
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Heptane, isomers (n-Heptane)
OEL TWA	400 ppm
OEL STEL	500 ppm
Notations and remarks	TLV® Basis: CNS impair; URT irr
Regulatory reference	ACGIH 2023

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Heptane (142-82-5)	
Canada (New Brunswick) - Occupational Exposure Limits	
Local name	Heptane, all isomers
OEL TWA	400 ppm
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Heptane, isomers (n-Heptane)
OEL TWA	400 ppm
OEL STEL	500 ppm
Notations and remarks	TLV® Basis: CNS impair; URT irr
Regulatory reference	ACGIH 2023
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Heptane, isomers (n-Heptane)
OEL TWA	400 ppm
OEL STEL	500 ppm
Notations and remarks	TLV® Basis: CNS impair; URT irr
Regulatory reference	ACGIH 2023
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Heptane (n-Heptane)
OEL TWA	400 ppm
OEL STEL	500 ppm
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	Heptane (n-Heptane)
OEL TWA	400 ppm
OEL STEL	500 ppm
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-013-2020)
Canada (Ontario) - Occupational Exposure Limits	
Local name	Heptane, All isomers
OEL TWA	400 ppm
OEL STEL	500 ppm
Regulatory reference	Ontario Occupational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Heptane, isomers (n-Heptane)
OEL TWA	400 ppm
OEL STEL	500 ppm
Notations and remarks	TLV® Basis: CNS impair; URT irr
Regulatory reference	ACGIH 2023

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Heptane (142-82-5)	
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Heptane (n-Heptane)
OEL TWA	400 ppm
OEL STEL	500 ppm
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Tetramethylthiuram disulphide (137-26-8)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Thiram
OEL TWA	1 mg/m ³
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
Local name	Thiram®
VEMP (OEL TWAEV)	5 mg/m ³
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Thiram
OEL TWA	1 mg/m ³
Notations and remarks	S(D) (dermal sensitization)
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Thiram
OEL TWA	0.05 mg/m ³ (IFV - Inhalable fraction and vapor)
Notations and remarks	TLV® Basis: Body weight & hematologic eff. Notations: DSEN; A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2023
Canada (New Brunswick) - Occupational Exposure Limits	
Local name	Thiram
OEL TWA	0.05 mg/m ³
Notations and remarks	Body weight & hematologic eff; DSEN; A4
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Thiram
OEL TWA	0.05 mg/m ³ (IFV - Inhalable fraction and vapor)
Notations and remarks	TLV® Basis: Body weight & hematologic eff. Notations: DSEN; A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2023
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Thiram
OEL TWA	0.05 mg/m ³ (IFV - Inhalable fraction and vapor)

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Tetramethylthiuram disulphide (137-26-8)	
Notations and remarks	TLV® Basis: Body weight & hematologic eff. Notations: DSEN; A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2023
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Thiram
OEL TWA	1 mg/m ³
OEL STEL	3 mg/m ³
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	Thiram
OEL TWA	1 mg/m ³
OEL STEL	3 mg/m ³
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-013-2020)
Canada (Ontario) - Occupational Exposure Limits	
Local name	Thiram
OEL TWA	0.05 mg/m ³ (IFV - Inhalable fraction and vapour)
Regulatory reference	Ontario Occupational Exposure Limits under Regulation 833
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Thiram
OEL TWA	0.05 mg/m ³ (IFV - Inhalable fraction and vapor)
Notations and remarks	TLV® Basis: Body weight & hematologic eff. Notations: DSEN; A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2023
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Thiram
OEL TWA	1 mg/m ³
OEL STEL	3 mg/m ³
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

8.2. Appropriate engineering controls

Appropriate engineering controls	: Provide local exhaust or general room ventilation. Ensure exposure is below occupational exposure limits (where available). Handle in accordance with good industrial hygiene and safety procedures. Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Environmental exposure controls	: Avoid release to the environment. Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment. Personal protective equipment should be chosen according to the NIOSH standards and in discussion with the supplier of the protective equipment.

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Hand protection:

Wear suitable gloves resistant to chemical penetration. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing. Skin protection appropriate to the conditions of use should be provided

Respiratory protection:

An approved organic vapor respirator/supplied air or self-contained breathing apparatus must be used when vapor concentration exceeds applicable exposure limits

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Viscous.
Color	: Black
Odor	: strong Solvent
Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: > 1
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 88 °C (190 °F)
Flash point	: -9 °C (15.8 °F)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapor
Vapor pressure	: 119 mm Hg (20 °C, 68 °F)
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 0.77 g/cm ³ (20 °C, 68 °F)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: 7000 mm ² /s (40 °C, 104 °F)
Explosion limits	: Lower explosion limit: 1.2 vol % Upper explosion limit: 6.7 vol %

9.2. Other information

VOC content	: 567 g/l
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SECTION 10: Stability and reactivity

Reactivity	: Highly flammable liquid and vapor. Can form explosive mixtures with air. Heating may cause a fire or explosion.
Chemical stability	: Stable under normal conditions of use.

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Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use. Hazardous polymerization: Will not occur.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7). Protect from sunlight. Overheating. Extremely high or low temperatures. No flames, no sparks. Eliminate all sources of ignition.
Incompatible materials	: Oxidising agents.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hardening time:	: No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Heptane, branched, cyclic and linear (64742-49-0)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat (Vapours)	> 4.42 mg/l/4h
Heptane (142-82-5)	
LD50 oral rat	> 5000 mg/kg
LD50 oral	5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LD50 dermal	3000 mg/kg
LC50 Inhalation - Rat (Vapours)	> 29.29 mg/l/4h
Di(benzothiazol-2-yl) disulphide (120-78-5)	
LD50 oral rat	7940 mg/kg
LD50 oral	7000 mg/kg
LD50 dermal rabbit	> 7940 mg/kg
LD50 dermal	7940 mg/kg
Tetramethylthiuram disulphide (137-26-8)	
LD50 oral	560 mg/kg
LD50 dermal	7940 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	0.5 mg/l/4h
ATE CA (oral)	500 mg/kg body weight
ATE CA (Gases)	4500 ppmV/4h
ATE CA (vapors)	11 mg/l/4h
ATE CA (dust,mist)	1.5 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified

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Carcinogenicity : Not classified

Tetramethylthiuram disulphide (137-26-8)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified

STOT-single exposure : May cause drowsiness or dizziness.

Heptane, branched, cyclic and linear (64742-49-0)	
STOT-single exposure	May cause drowsiness or dizziness.

Heptane (142-82-5)	
STOT-single exposure	May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

Tetramethylthiuram disulphide (137-26-8)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

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Viscosity, kinematic	7000 mm ² /s (40 °C, 104 °F)

Heptane, branched, cyclic and linear (64742-49-0)	
Viscosity, kinematic	0.83 mm ² /s (15.6 °C, 60.1 °F)

Symptoms/effects after inhalation : May cause drowsiness or dizziness. In high concentrations vapors cause anesthetic and narcotic effect.

Symptoms/effects after skin contact : Causes skin irritation. Redness. Itching. Swelling. May cause an allergic skin reaction. Skin rash/inflammation.

Symptoms/effects after eye contact : Lacrimation. redness, itching, tears. Blurred vision.

Symptoms/effects after ingestion : Ingestion may cause nausea, vomiting and diarrhea.

Other information : No experimental study on the product is available. The information given is based on our knowledge of the components and the classification of the product is determined by calculation.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

Heptane, branched, cyclic and linear (64742-49-0)	
EC50 - Crustacea [1]	4.5 mg/l (Daphnia magna)
ErC50 algae	3.1 mg/l (72h, Selenastrum capricornutum)
NOEC chronic crustacea	10 mg/l (10d, Daphnia magna)

Heptane (142-82-5)	
LC50 - Fish [1]	4 mg/l (Carassius auratus)
EC50 - Crustacea [1]	1.15 mg/l

Di(benzothiazol-2-yl) disulphide (120-78-5)	
LC50 - Fish [1]	82 mg/l Lepomis macrochirus
EC50 - Crustacea [1]	82 mg/l Daphnia

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Di(benzothiazol-2-yl) disulphide (120-78-5)	
EC50 96h - Algae [1]	0.7 mg/l
Tetramethylthiuram disulphide (137-26-8)	
EC50 - Crustacea [1]	0.0036 mg/l
NOEC chronic algae	0.0243 mg/l

12.2. Persistence and degradability

Truflex/Pang Butyl Liner Sealer	
Persistence and degradability	Biodegradability in water: no data available.
Heptane (142-82-5)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

Truflex/Pang Butyl Liner Sealer	
Bioaccumulative potential	No data available concerning bioaccumulation.
Heptane (142-82-5)	
Bioconcentration factor (BCF REACH)	552

12.4. Mobility in soil

Truflex/Pang Butyl Liner Sealer	
Ecology - soil	No additional information available.
Heptane (142-82-5)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.38

12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No other effects known.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Do not dispose of waste into sewer.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not dispose of the packaging without first carrying out the necessary cleaning. Do not pierce or burn, even after use.
Additional information	: Flammable vapors may accumulate in the container.
Ecology - waste materials	: Avoid release to the environment.

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SECTION 14: Transport information

In accordance with TDG / DOT / IMDG / IATA

14.1. UN number

UN-No. (TDG) : UN1133
DOT NA No : UN1133
UN-No. (IMDG) : 1133
UN-No. (IATA) : 1133

14.2. UN proper shipping name

Proper Shipping Name (TDG) : ADHESIVES
Proper Shipping Name (DOT) : Adhesives
Proper Shipping Name (IMDG) : ADHESIVES
Proper Shipping Name (IATA) : Adhesives

14.3. Transport hazard class(es)

TDG

Transport hazard class(es) (TDG) : 3
Hazard labels (TDG) : 3
:



DOT

Transport hazard class(es) (DOT) : 3
Hazard labels (DOT) : 3
:



IMDG

Transport hazard class(es) (IMDG) : 3
Hazard labels (IMDG) : 3
:



IATA

Transport hazard class(es) (IATA) : 3
Hazard labels (IATA) : 3
:



14.4. Packing group

Packing group (TDG) : II
Packing group (DOT) : II
Packing group (IMDG) : II
Packing group (IATA) : II

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14.5. Environmental hazards

Dangerous for the environment : No
Other information : No supplementary information available.

14.6. Special precautions for user

TDG

UN-No. (TDG) : UN1133
Explosive Limit and Limited Quantity Index : 5 L
Excepted quantities (TDG) : E2
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 5 L
Emergency Response Guide (ERG) Number : 128

DOT

UN-No.(DOT) : UN1133
DOT Special Provisions (49 CFR 172.102) : 149 - When transported as a limited quantity or a consumer commodity, the maximum net capacity specified in 173.150(b)(2) of this subchapter for inner packaging may be increased to 5 L (1.3 gallons).
B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure relief devices are authorized on DOT 57 portable tanks.
IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).
DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 173
DOT Packaging Bulk (49 CFR 173.xxx) : 242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L
DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

IMDG

Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001
Packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC02
Tank instructions (IMDG) : T4
Tank special provisions (IMDG) : TP1, TP8
EmS-No. (Fire) : F-E - FIRE SCHEDULE Echo - NON-WATER-REACTIVE FLAMMABLE LIQUIDS
EmS-No. (Spillage) : S-D - SPILLAGE SCHEDULE Delta - FLAMMABLE LIQUIDS
Stowage category (IMDG) : B
Properties and observations (IMDG) : Adhesives are solutions of gums, resins, etc., usually volatile due to the solvents. Miscibility with water depends upon their composition.

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IATA

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
Special provision (IATA)	: A3
ERG code (IATA)	: 3L

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

Not applicable

SECTION 15: Regulatory information

15.1. National regulations

Heptane, branched, cyclic and linear (64742-49-0)

Listed on the Canadian DSL (Domestic Substances List)

Heptane (142-82-5)

Listed on the Canadian DSL (Domestic Substances List)

Di(benzothiazol-2-yl) disulphide (120-78-5)

Listed on the Canadian DSL (Domestic Substances List)

Tetramethylthiuram disulphide (137-26-8)

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

Heptane, branched, cyclic and linear (64742-49-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Heptane (142-82-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Di(benzothiazol-2-yl) disulphide (120-78-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Tetramethylthiuram disulphide (137-26-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active
Listed on INSQ (Mexican National Inventory of Chemical Substances)

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SECTION 16: Other information

Issue date	: 11-20-2023
Data sources	: ECHA (European Chemicals Agency). Supplier's safety documents.
Training advice	: Training staff on good practice.

Full text of H-phrases:	
H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level

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Abbreviations and acronyms:	
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Safety Data Sheet (SDS), Canada

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.