

Safety Data Sheet

according to WHS Regulations

Printing date 14.10.2019

Revision: 14.10.2019

1 Identification

Product Name: SAERTEX-LINER® (UP RESIN)

Other Means of Identification: Mixture

Other Name:

SAERTEX-LINER®, SAERTEX-LINER® Premium, SAERTEX-LINER® Pressure, SAERTEX-LINER® Gas, SAERTEX-LINER® Shaft

Recommended Use of the Chemical and Restriction on Use: Rehabilitation of sewers / pipelines

Details of Manufacturer or Importer:

Pipe Core Pty Ltd
Unit 8, 600 Lorimer Street,
Port Melbourne, Victoria 3207

Phone Number: 1800 747 326

Emergency telephone number: National Poison Information Centre: 13 11 26

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



flame

Flammable Liquids 3

H226 Flammable liquid and vapour.



health hazard

Toxic To Reproduction 2
STOT RE 1

H361d Suspected of damaging the unborn child.

H372 Causes damage to the hearing organs through prolonged or repeated exposure.



Acute Toxicity (Inhalation) 4

H332 Harmful if inhaled.

Skin Corrosion/Irritation 2

H315 Causes skin irritation.

Serious Eye Damage/Irritation 2A

H319 Causes serious eye irritation.

Skin Sensitisation 1

H317 May cause an allergic skin reaction.

Aquatic Acute 3

H402 Harmful to aquatic life.

Signal Word Danger

Hazard Statements

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H361d Suspected of damaging the unborn child.

(Contd. on page 2)

Safety Data Sheet

according to WHS Regulations

Printing date 14.10.2019

Revision: 14.10.2019

Product Name: SAERTEX-LINER® (UP RESIN)

(Contd. of page 1)

H372 Causes damage to the hearing organs through prolonged or repeated exposure.

H402 Harmful to aquatic life.

Precautionary Statements

- P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P233 Keep container tightly closed.
 P240 Ground/bond container and receiving equipment.
 P241 Use explosion-proof electrical/ventilating/lighting equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P264 Wash hands thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P321 Specific treatment (see on this label).
 P314 Get medical advice/attention if you feel unwell.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
 P370+P378 In case of fire: Use to extinguish: CO₂, powder or water spray.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/container in accordance with local/regional/national regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

CAS: 100-42-5	Styrene monomer ⚠ Flammable Liquids 3, H226; ⚠ Toxic To Reproduction 2, H361d; STOT RE 1, H372; ⚠ Acute Toxicity (Inhalation) 4, H332; Skin Corrosion/Irritation 2, H315; Serious Eye Damage/Irritation 2A, H319	15 - 25%
CAS: 28182-81-2	Hexane, 1,6-diisocyanato-, homopolymer ⚠ Acute Toxicity (Inhalation) 4, H332; Skin Sensitisation 1, H317; STOT SE 3, H335	1 - 3%
CAS: 162881-26-7	Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide ⚠ Skin Sensitisation 1, H317; Aquatic Chronic 4, H413	0.1 - 1%
CAS: 123-31-9	1,4-dihydroxybenzene ⚠ Germ Cell Mutagenicity 2, H341; Carcinogenicity 2, H351; ⚠ Serious Eye Damage/Irritation 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Acute Toxicity (Oral) 4, H302; Skin Sensitisation 1, H317	0.01 - 0.1%

(Contd. on page 3)

Safety Data Sheet

according to WHS Regulations

Printing date 14.10.2019

Revision: 14.10.2019

Product Name: SAERTEX-LINER® (UP RESIN)

(Contd. of page 2)

4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: Harmful if inhaled. May cause respiratory irritation.

Skin Contact: Causes skin irritation. May cause an allergic skin reaction.

Eye Contact: Causes serious eye irritation.

Ingestion: No information available.

5 Fire Fighting Measures

Suitable Extinguishing Media:

Water fog, alcohol resistant foam, dry chemical or carbon dioxide. Do not use full water jet.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon and phosphorus.

Product is flammable.

Closed containers may explode when exposed to extreme heat. Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots.

Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation. Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material.

Collect the spilled material and place into a suitable container for disposal. Use only non-sparking tools.

7 Handling and Storage

Precautions for Safe Handling:

Suspected of damaging the unborn child. Pregnant women should not handle this product.

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Take precautionary measures against static discharge. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or

(Contd. on page 4)

Safety Data Sheet

according to WHS Regulations

Printing date 14.10.2019

Revision: 14.10.2019

Product Name: SAERTEX-LINER® (UP RESIN)

(Contd. of page 3)

using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Contaminated work clothing must not be allowed out of the workplace. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Keep in original containers. Protect from heat, sparks, open flames, hot surfaces and direct sunlight. Keep away from strong oxidising agents.

Storage temperature: <18 °C

8 Exposure Controls and Personal Protection

Exposure Standards:**CAS: 100-42-5 Styrene monomer**

WES	STEL: 426 mg/m ³ , 100 ppm
	TWA: 213 mg/m ³ , 50 ppm

CAS: 123-31-9 1,4-dihydroxybenzene

WES	TWA: 2 mg/m ³
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Engineering Controls:

Maintain air concentration below occupational exposure standards, providing adequate ventilation. Use explosion-proof ventilating equipment.

Respiratory Protection:

Use an approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Chemical resistant gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form:	Liquid
Colour:	Green / Yellowish
Odour:	Characteristic
Odour Threshold:	No information available
pH-Value:	Not determined.
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	32 °C
Flammability:	Flammable.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available

(Contd. on page 5)

Safety Data Sheet

according to WHS Regulations

Printing date 14.10.2019

Revision: 14.10.2019

Product Name: SAERTEX-LINER® (UP RESIN)

(Contd. of page 4)

Explosion Limits:**Lower:** No information available**Upper:** No information available**Vapour Pressure:** No information available**Density:** Not determined.**Vapour Density:** No information available**Evaporation Rate:** No information available**Solubility in Water:** No information available**Partition Coefficient (n-octanol/water):** No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions: Hazardous polymerisation will not occur.**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.**Conditions to Avoid:** Heat, sparks, open flames, hot surfaces and direct sunlight.**Incompatible Materials:** Strong oxidising agents.**Hazardous Decomposition Products:** Oxides of carbon and phosphorus.

11 Toxicological Information

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:****CAS: 100-42-5 Styrene monomer**

Oral	LD ₅₀	>6,000 mg/kg (hamster) 5,000 mg/kg (rat)
Dermal	LD ₅₀	>2,000 mg/kg (rat)
Inhalation	LC ₅₀ /4 h	24 mg/l (rat)

CAS: 28182-81-2 Hexane, 1,6-diisocyanato-, homopolymer

Oral	LD ₅₀	>5,000 mg/kg (rat)
Dermal	LD ₅₀	>2,000 mg/kg (rat)
Inhalation	LC ₅₀ /4 h	0.39 mg/l (rat)

CAS: 162881-26-7 Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

Oral	LD ₅₀	>2,000 mg/kg (rat)
Dermal	LD ₅₀	>2,000 mg/kg (rat)

CAS: 123-31-9 1,4-dihydroxybenzene

Oral	LD ₅₀	367 mg/kg (rat)
Dermal	LD ₅₀	>2,000 mg/kg (rat) >2,000 mg/kg (rabbit)

Acute Health Effects**Inhalation:** Harmful if inhaled. May cause respiratory irritation.**Skin:** Causes skin irritation. May cause an allergic skin reaction.**Eye:** Causes serious eye irritation.**Ingestion:** No information available**Skin Corrosion / Irritation:** Causes skin irritation.**Serious Eye Damage / Irritation:** Causes serious eye irritation.

(Contd. on page 6)

Safety Data Sheet

according to WHS Regulations

Printing date 14.10.2019

Revision: 14.10.2019

Product Name: SAERTEX-LINER® (UP RESIN)

(Contd. of page 5)

Respiratory or Skin Sensitisation: May cause an allergic skin reaction.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:**

Styrene is classified by IARC as Group 2A - Probably carcinogenic to humans.

Hydroquinone is classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity: Suspected of damaging the unborn child.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Causes damage to organs through prolonged or repeated exposure.

Aspiration Hazard: Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** Repeated or prolonged contact may cause hearing damage.**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:** No information available

12 Ecological Information

Ecotoxicity:**Aquatic toxicity:**

Harmful to aquatic life with long lasting effects.

CAS: 100-42-5 Styrene monomerEC₅₀/48 h 4.7 mg/l (daphnia)EC₅₀/72 h 4.9 mg/l (pseudokirchnerie lla subcapitata)LC₅₀/96 h 4.02 mg/l (fathead minnow)**CAS: 28182-81-2 Hexane, 1,6-diisocyanato-, homopolymer**EC₅₀/48 h >100 mg/l (daphnia)EC₅₀/72 h >100 mg/l (scenedesmus subspicatus)EC₅₀/3 h >1,000 mg/l (bacterial)LC₅₀/96 h >100 mg/l (fish)**CAS: 162881-26-7 Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**EC₅₀/48 h >1.175 mg/l (daphnia)EC₅₀/72 h >0.26 mg/l (scenedesmus subspicatus)EC₅₀/3 h >100 mg/l (bacterial)LC₅₀/96 h >0.09 mg/l (brachydanio rerio)**CAS: 123-31-9 1,4-dihydroxybenzene**EC₅₀/48 h 1.175 mg/l (daphnia)EC₅₀/72 h >0.26 mg/l (pseudokirchnerie lla subcapitata)LC₅₀/96 h >0.09 mg/l (brachydanio rerio)**Persistence and Degradability:** No further relevant information available.**Bioaccumulative Potential:** No further relevant information available.**Mobility in Soil:** No further relevant information available.

(Contd. on page 7)

Safety Data Sheet

according to WHS Regulations

Printing date 14.10.2019

Revision: 14.10.2019

Product Name: SAERTEX-LINER® (UP RESIN)

(Contd. of page 6)

Other adverse effects: No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number ADG, IMDG, IATA	UN1993
Proper Shipping Name ADG, IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Styrene monomer)
Dangerous Goods Class ADG Class:	3 Flammable liquids.
Packing Group: ADG, IMDG, IATA	III
EMS Number:	F-E, <u>S-E</u>
Hazchem Code:	•3Y
Special Provisions:	223, 274
Limited Quantities:	5L
Packagings & IBCs - Packing Instruction:	P001, IBC03, LP01
Portable Tanks & Bulk Containers - Instructions:	T4
Portable Tanks & Bulk Containers - Special Provisions:	TP1, TP29

15 Regulatory Information

Australian Inventory of Chemical Substances:

CAS: 100-42-5	Styrene monomer
CAS: 28182-81-2	Hexane, 1,6-diisocyanato-, homopolymer
CAS: 162881-26-7	Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
CAS: 123-31-9	1,4-dihydroxybenzene

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 5

16 Other Information

Date of Preparation or Last Revision: 14.10.2019**Prepared by:** MSDS.COM.AU Pty Ltd

www.msds.com.au

Abbreviations and acronyms:

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC₅₀: Lethal concentration, 50 percentLD₅₀: Lethal dose, 50 percent

(Contd. on page 8)

Safety Data Sheet

according to WHS Regulations

Printing date 14.10.2019

Revision: 14.10.2019

Product Name: SAERTEX-LINER® (UP RESIN)

(Contd. of page 7)

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Flammable Liquids 3: Flammable liquids – Category 3

Acute Toxicity (Inhalation) 4: Acute toxicity – Category 4

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

Serious Eye Damage/Irritation 2A: Serious eye damage/eye irritation – Category 2A

Skin Sensitisation 1: Skin sensitisation, Hazard Category 1

Germ Cell Mutagenicity 2: Germ cell mutagenicity – Category 2

Carcinogenicity 2: Carcinogenicity – Category 2

Toxic To Reproduction 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

Aquatic Acute 3: Hazardous to the aquatic environment, short-term (Acute). Category 3

Aquatic Chronic 4: Hazardous to the aquatic environment, long-term (Chronic). Category 4

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - February 2016”

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