



SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product:

Product Name:	Adphalt
Other Names:	N/A
Product Code:	LEXADPHALT
HSNO Approval:	HSR002517
Approval Description:	Aerosols (Flammable, Toxic [6.7]) Group Standard 2017
UN Number:	UN1950
Proper Shipping Name:	Aerosols
DG Class:	2.2
Uses:	Foam adhesive

Company Details:

Company:	Sealco Limited
Address:	Unit 5, 18 Taurus Pl, Bromley, Christchurch PO Box 35-190, Shirley, Christchurch
Telephone:	03 366 9495, 0508 292 837
Website:	www.sealco.co.nz

Emergency Number: National Poisons Centre
0800 764 766

SECTION 2 – HAZARDS IDENTIFICATION

Approval:

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002517, Aerosols (Flammable, Toxic [6.7]) Group Standard 2017). The substance has been classified as hazardous according to the criteria in the Hazardous substances (Minimum Degrees of Hazard) Notice 2017.

Classes:

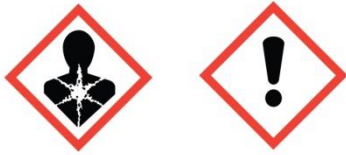
2.2.1A
6.1D (Oral)
6.1D (Dermal)
6.1D (Inhalation)
6.3A
6.4A
6.5A (Respiratory)

6.5B (Skin)
6.7B
6.9B
6.9B

Hazard Statements:

H222 - Flammable aerosol
H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H317 - May cause an allergic skin reaction
H351 - Suspected of causing cancer
H371 - May cause damage to organs
H373 - Causes damage to organs through prolonged or repeated exposure

DANGER Symbols



Signal Word: **Danger**

Precautionary Statements:

Prevention

- P101 - If medical advice is needed, have product container or label at hand
- P102 - Keep out of reach of children
- P103 - Read label before use
- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P210 - Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
- P211 - Do not spray on an open flame or other ignition source.
- P251 - Do not pierce or burn, even after use.
- P260 - Do not breathe vapours.
- P261 - Avoid breathing dust/fume/gas/mist/vapors/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.
- P280 - Wear protective gloves / eye protection / face protection
- P281 - Use personal protective equipment as required.
- P285 - In case of inadequate ventilation wear respiratory protection.

Response

- P312 - Call a POISON CENTER or doctor/... if you feel unwell.
- P330 - Rinse mouth.
- P331 - Do NOT induce vomiting.
- P363 - Wash contaminated clothing before reuse.
- P301+P312 - IF SWALLOWED: call a POISON CENTER/doctor/... IF you feel unwell.
- P302+P352 - If ON SKIN: Wash with plenty of soap and water
- P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P304+P312 - IF INHALED: Call a POISON CENTER/doctor/... if you feel unwell.
- P342+P311 - IF experiencing respiratory symptoms: Call a POISON CENTER/doctor
- P332+P313 - If skin irritation occurs, Get medical advice / attention.
- P362 - Take off contaminated clothes and wash before re-use.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P313+P337 - If eye irritation persists seek medical advice / attention
- P308+313 - IF exposed or concerned, get medical advice / attention
- P391 - Collect spillage

Storage

- P405 - Store locked up.
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
- P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

Disposal

- P501 - Dispose of contents/container in accordance with local regulations.

SECTION 3 – INFORMATION ON INGREDIENTS

CAS / Identification	Component	Conc (%)
9016-87-9	Isocyanic acid, polymethylenepolyphenylene ester	> 25%
13674-84-5	2-Propanol, 1-chloro-, phosphate (3:1)	25 to 30%
115-10-6	Dimethyl Ether	10 to 15%
8001-79-4	Castor Oil	10 to 15%
74-98-6	Propane	1 to 5%
	Copolymer	1 to 5%
75-28-5	Isobutane	< 10%
6425-39-4	4,4'-(oxydi- 2,1ethanediyl) bismorpholine	< 1%

SECTION 4 – FIRST AID MEASURES

Description of First Aid Measures:

In the event of splashes or contact with eyes:

Wash eyes with plenty of water. Remove the contact lenses if worn and easy to do that. Hold eyelids open to ensure adequate flushing. Continue rinsing. Seek medical attention if irritation, redness, or any other symptom develops.

In the event of splashes or contact with skin:

If redness or other symptoms occur, seek medical advice / attention. If you feel unwell, call a poison center, doctor, or medical service. Take off all contaminated clothing and wash it before reuse. Wash contaminated areas thoroughly with water. Wash contaminated areas thoroughly with soft nonabrasive soap and cold water.

In the event of ingestion:

If after ingestion you feel unwell, seek medical advice. Rinse the mouth with water.

In the event of inhalation:

Remove person to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if symptoms occur.

Most important symptoms and effects, both acute and delayed:

Acute: Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Delayed: May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause allergic skin reaction. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure: respiratory tract.

Indication of any immediate medical attention and special treatment needed:

Description of Necessary Measures:

If exposed or concerned, get medical advice / attention. Call a POISON CENTER or doctor/physician.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing media:

Suitable Extinguishing Media - The suggested appropriate media: Carbon dioxide. Water.

Unsuitable Extinguishing Media - None known.

Special hazards arising from the substance or mixture:

Specific Hazards Arising from Combustion of Products - Extremely flammable aerosol.

Combustion Products - Oxides of carbon (CO_x). Phosphorus oxides. Hydrogen cyanide. Hydrogen chloride. May polymerize when heated.

Advice for firefighters:

Protective Measures for Fire-Fighting - Wear full protective firefighting gear including self-contained breathing apparatus (SCBA) for protection against possible exposure.

Special Protective Actions for Fire-Fighters - Danger of explosions. Cool containers with water from unmanned hose holder or monitor nozzles until well after fire is out. Do not allow run-off from firefighting to enter drains or water courses. Evacuate the people from the area.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear protective gloves, clothing, and protective goggles to prevent contact with skin and eyes. Use explosion-proof electrical/ventilating/lighting equipment. Eliminate all sources of heat and ignition.

Environmental precautions

Do not allow to enter into surface water or drains. Dike for later disposal.

Methods and material for containment and cleaning up

Do not pierce or burn, even after use.

SECTION 7 – HANDLING & STORAGE

Precautions for safe handling

Do not spray on an open flame or other ignition sources. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid direct contact with the substance (solid / liquid / vapor). Avoid breathing gas / mist / dust / fume / vapor / spray / particles. Do not pierce or burn, even after use. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash before re-use. In case of inadequate ventilation wear respiratory protection. Use explosion-proof electrical/ventilating/lighting equipment. Avoid being exposed to gas / mist / dust / fume / vapor / spray / particles. Do not eat, drink, or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Handle in accordance with all current regulations and standards. If needed, only use non-sparking tools in the storage area while handling. No smoking or open flame in storage, use or handling areas. Take action to prevent static discharges.

Conditions for safe storage, including any incompatibilities:

Conditions for Safe Storage

Store in a well-ventilated area. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Ensure adequate ventilation of the storage area. Maximum storage period (time): 1 year.

Incompatible Materials

Heat. Strong acids. Strong bases. Amines. Keep away from all ignition sources.

SECTION 8 – EXPOSURE CONTROL & PERSONAL PROTECTION

NZ Workplace Exposure Standards

Ingredient	WES-TWA	WES-STEL
Propane	Not available	Not available
Isobutane	Not available	Not available
Dimethyl Ether	400 ppm / 766 mg/m ³	500 ppm / 958 mg/m ³

*These workplace exposure standards are also Prescribed Exposure Standards (PES) under the Health & Safety at Work (General Risk and Workplace Management) Regulations 2016.

Exposure Controls

Engineering Measures - Use explosion-proof electrical/ventilating/lighting equipment. Keep away from heat/sparks/open flames/hot surfaces.

Respiratory Protection - Use a respirator with an organic vapor cartridge for concentrations exceeding the occupational exposure limit.

Eye/Face Protection - Wear splash resistant safety goggles. Skin and Body Protection Wear suitable protective clothing and gloves.

Hand Protection - LOW DENSITY POLYETHYLENE. Wear impermeable gloves.



SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance	Champagne	Physical State	Aerosol
Odour	Not available	Density	950 kg/m ³
Odour Threshold	Not available	Ph	Not available
Melting Point	Not available	Boiling Point	Not available
Solubility	Insoluble	Solubility in other solvents	Soluble
Evaporation rate w/r/t ether	Not available	Evaporation rate w/r/t butyl acetate	Not available
Flammability	Not available	Flammability Limit	Not available

Vapor pressure	Not available	Flash Point	Not available
Vapor Density	Not available	Partition coefficient	Not available
Relative density w/r/t water	Not available	Relative density w/r/t air	Not available
Auto-ignition temperature	Not available	Decomposition temperature	Not available
Viscosity	Not available	Freezing Point	Not available

SECTION 10 – STABILITY & REACTIVITY

Reactivity	May polymerize when heated.
Chemical Stability	Stable under normal conditions of use.
Possibility of Hazardous Reactions	May polymerize when heated.
Conditions to Avoid	Avoid contact with incompatible materials. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not spray on an open flame or other ignition sources. Do not pierce or burn, even after use.
Incompatible Materials	Avoid contact or storage with: Amines. Strong acids. Strong bases. Heat.
Hazardous decomposition products	Oxides of carbon (CO _x). Phosphorus oxides. Hydrogen cyanide. Hydrogen chloride.

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Toxicological Information for Product:

Inhalation: May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Ingestion: Harmful if swallowed.

Reproductive toxicity: No data available.

Medical Conditions Aggravated by Exposure: Eye disorders. Respiratory disorders. Skin disorders. Gastrointestinal disorders. May produce an allergic reaction. Persons already sensitized to diisocyanates may develop allergic reactions when using this product.

Germ cell mutagenicity: No data available.

Immediate Effects: Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May cause allergic or asthmatic symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

Specific target organ toxicity - repeated exposure: Respiratory tract. **Specific target organ toxicity - single exposure:** Respiratory tract.

Aspiration hazard: No data available.

Carcinogenicity: Suspected of causing cancer.

Toxicological Information for Component

2-Propanol, 1-chloro-, phosphate (3:1)

LD 50 Oral 500 mg/kg, Rat.

LD 50 Dermal 1230 mg/kg, Rabbit.

LC 50 Inhalation 5 mg/l(4h), Rat.

Isocyanic acid, polymethylenepolyphenylene ester

LC 50 Inhalation 490 mg/m³(4h), Rat.

Propane

LC 50 Inhalation 658 mg/l(4h), Rat.

Isobutane

LC 50 Inhalation 658 mg/l(4h), Rat.

Dimethyl Ether

LC 50 Inhalation 308.5 mg/l(4h), Rat.

Irritation/Corrosion Information for Product

Skin contact: Harmful if in contact with skin. May cause allergic skin reaction.

Eye contact: Causes serious eye damage.

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

SECTION 12 – ECOLOGICAL INFORMATION**Toxicity****Ecotoxicity Values for Component****2-Propanol, 1-chloro-, phosphate (3:1)**

Aquatic Toxicity - LC 50 Invertebrates: 63 mg/l (48h), Daphnia magna, IUCLID.

Aquatic Toxicity - LC 50 Algae: 45 mg/l(72h), Desmodesmus subspicatus, IUCLID. 4 mg/l(96h), Pseudokirchneriella subcapitata IUCLID.

Aquatic Toxicity - LC 50 Fish: 56.2 mg/l(96h), Brachydanio rerio [static]. 98 mg/L(96h),]. Pimephales promelas [static]. 30 mg/L(96h), Poecilia reticulata [static].

Persistence and degradability Contains non-readily biodegradable component(s).

Bioaccumulative potential

Bioaccumulative Potential for Product - No data available.

Mobility in soil - No data available for the product.

SECTION 13 – DISPOSAL CONSIDERATIONS**Waste treatment methods:****Waste Disposal Regulation(s) / Operation**

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of national pollutant discharge elimination systems.

Users need to pay attention to the possible existence of regional or national regulations regarding disposal.

SECTION 14 – TRANSPORT INFORMATION

Land Transport Rule: Hazardous Goods 2005 – NZS 5433:2007

Transport according to NZS 5433 (Transport of Hazardous Substances on Land). Considered a dangerous good for transport.

Shipping Name:	Aerosol	Packing Group:	Not applicable
UN #	UN1950	Precautions:	Flammable Aerosol
Hazard Class:	2.2		

SECTION 15 – REGULATORY INFORMATION

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002517, Aerosols (Flammable, Toxic [6.7]) Group Standard 2017).

Specific Workplace Controls (as per HSNO approval referenced to Controls Matrix)

Key Workplace requirement are:

SDS	To be available in 10 minutes any workplace storing any quantity
Inventory	An inventory of all hazardous substances must be prepared and maintained
Packaging	All hazardous substances should be appropriately packaged, including substances that have been decanted, transferred, or manufactured for own use or have been supplied
Labelling	Must comply with the Hazardous Substances (Labelling) Notice 2017
Emergency Plan	Required if > 1000L is stored
Certified Handler	Required if > 3000L is stored
Tracking	Not required
Bundling & Secondary Containment	Required if > 1000L is stored
Signage	Required if > 1000L is stored in one location
Location Compliance Certificate	Required if > 3000L is stored in any one location
Flammable Zone	Must be established if > 3000L is stored in any one location
Fire Extinguisher	If > 3000L is present

Section 16 – OTHER INFORMATION

Other Information

HMIS Rating

Health: 2 Fire: 3 Reactivity: 0 Personal Protection B

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

NFPA Ratings

Health: 2 Fire: 3 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Abbreviations:

CAS Number	Unique Chemical Abstracts Service Registry Number
Controls Matrix	List of default controls linking regulation numbers to Matrix code
EC50	Ecotoxic Concentration 50% - concentration in water which is fatal to 50% of a test population (eg. Daphnia, fish species)
EPA	Environmental Protection Authority
HAZCHEM Code	Emergency action code of numbers and letters that provide information to emergency services, especially firefighters
HSNO	Hazardous Substances and New Organisms (Act & Regulations)
IARC	International Agency for Research on Cancer
LEL	Lower Explosive Limit
LD50	Lethal Dose 50% - dose which is fatal to 50% of a test population (usually rats)
LC50	Lethal Concentration 50% - concentration in air which is fatal to 50% of a test population (usually rats)
MSDS (SDS)	Material Safety Data Sheet (Safety Data Sheet)
NZIoC	New Zealand Inventory of Chemicals
PES	Prescribes Exposure Standard means a WES or a biological exposure standard that is prescribed in a regulation, a safe work instrument or an approval under HSNO
STEL	Short Term Exposure Limit – The maximum airborne concentration of a chemical or biological agent to which a worker may be exposed in any 15-minute period, provided the TWA is not exceeded.
TWA	Time Weighted Average – generally referred to WES averaged over typical workday (usually 8 hours)
UEL	Upper Explosive Limit
WES	Workplace Exposure Standard – The airborne concentration of a biological or chemical agent to which a worker may be exposed during work hours (usually 8 hours per day, 5 days per week) The WES relates to exposure that has been measured by personal monitoring using procedures that gather air samples in the workers breathing zone

Review

Date	Reason for Review	Version
June 2021	Not applicable – New SDS	1

Disclaimer:

This SDS was prepared by Sealco Ltd and is based on our current knowledge, including information obtained by suppliers. This product may be formulated in part with components purchased from other companies. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The SDS is given in good faith and constitutes a guideline (not a guarantee of safety). The level of risk each substance poses is relevant to its properties and how the substance is used. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.