



EpiBOND BA90 EPDM Contact Adhesive

Safety Data Sheet

Date: April 2022

SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product:

Product Name:	EpiBOND BA90 EPDM Contact Adhesive
Other Names:	N/A
Product Code:	EBBA90
HSNO Approval:	HSR002662
Approval Description:	Surface Coatings and Colorants
UN Number:	UN1133
Proper Shipping Name:	ADHESIVE
DG Class:	3
Packing Group:	II
Hazchem Code:	3YE
Uses:	Contact 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
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SECTION 2 – HAZARDS IDENTIFICATION

Approval:

This product has been approved under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR00269, Surface Coatings and Colourants (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:

- 3.1B
- 6.1E (Aspiration)
- 6.3A
- 6.4A
- 6.6A
- 6.7A
- 6.8A
- 6.9A (oral, dermal, inhalation)
- 6.9B (oral, dermal, inhalation)

Hazard Statements:

- H225 - Highly flammable liquid & vapour
- H304 - May be fatal if swallowed and enters airways
- H315 - Causes skin irritation
- H319 - Causes serious eye irritation
- H340 - May cause genetic defects
- H350 - May cause cancer
- H360FD - May damage fertility; May damage the unborn child
- H370 - Causes damage to organs (central nervous system, kidneys, liver, respiratory system)
- H371 - May cause damage to organs (nervous system)

6.9B (narcotic effects)
6.9A (oral, dermal, inhalation)

H336 - May cause drowsiness or dizziness
H372 - Causes damage to organs through prolonged or repeated exposure

DANGER Symbols



Other Classifications:

There are no other classifications that are known to apply

Precautionary Statements:

Prevention

- P102 - Keep out of reach of children
- P103 - Read label before use
- P201 - Obtain special instructions before use
- P202 - Do not use until all safety instructions have been read and understood
- P210 - Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. 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
- P280 - Wear protective gloves / eye protection / face protection
- P281 - Use personal protective equipment as required.

Response

- P301+P310 - If SWALLOWED. Immediately call a POISON CENTRE or doctor
- P331 - Do NOT induce vomiting
- P302+P352 - IF ON SKIN: wash with plenty of water
- P332+P313 - IF SKIN irritation occurs: Get medical advice/attention
- P307+P311 - IF exposed: call a POISON CENTER or doctor/physician
- P314 - Get medical advice/attention if you feel unwell.
- P303+P361+P353 - IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water [or shower].
- P370+P378 - In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.
- 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

Storage

- P403+P235 - Store in a well-ventilated place. Keep cool.
- P405 - Store locked up.

Disposal

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

SECTION 3 – INFORMATION ON INGREDIENTS

CAS / Identification	Component	Conc (%)
Proprietary	Polychloroprene	10 - 30
Proprietary	Phenolic Resin	1 - 5
1309-48-4	Magnesium oxide (MgO)	0.5 – 1.5
108-88-3	Toluene	30 - 60
64742-89-8	Solvent naphtha, petroleum, light aliphatic	15 - 40
67-64-1	Acetone	5 - 10
1330-20-7	Xylenes (o-, m-, p- isomers)	1 - 5

SECTION 4 – FIRST AID MEASURES

Description of Necessary Measures:

If exposed or concerned: Call a POISON CENTER or doctor/physician

Inhalation: Remove person to fresh air and keep comfortable for breathing. Give artificial respiration if not breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Eyes: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion: Aspiration hazard. Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to help prevent aspiration.

Indication of any immediate medical attention and special treatment needed:

No additional information is available

Most Important Symptoms/Effects:

Skin irritation, eye irritation, aspiration hazard, central nervous system damage, kidney damage, liver damage, respiratory system damage, nervous system damage, nervous system Effects

Delayed:

Central nervous system damage, kidney damage, nervous system damage, respiratory system damage, blood Effects, liver effects.

Note to Physicians:

If adverse effects occur, treat symptomatically and supportively.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable Extinguishing:

Media Dry chemical, foam, or carbon dioxide. Water may be ineffective

Unsuitable Extinguishing Media:

Do not use high-pressure water streams

Special Hazards Arising from the Chemical:

Highly flammable liquid and vapor. Vapors are heavier than air and may travel a considerable distance to a source of ignition and flashback

Hazardous Combustion Products:

Oxides of carbon, hydrogen cyanide, oxides of nitrogen

Advice for firefighters:

Keep away from heat/sparks/open flame/hot surfaces - No smoking. Ground/bond container and receiving equipment. Take action to prevent static discharges. Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out.

Fire Fighting Measures:

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

SECTION 6 – ACCIDENTAL RELEASE MEASURES**Personal Precautions, Protective Equipment and Emergency Procedures:**

Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up:

Eliminate all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Do not touch or walk-through spilled material. Prevent entry into waterways, sewers, basements, or confined areas. Absorb with earth, sand or other non-combustible material and transfer to container. Use non-sparking tools.

Environmental Precautions:

Avoid release to the environment.

SECTION 7 – HANDLING & STORAGE**Precautions for Safe Handling:**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Use non-sparking tools. Wash contaminated clothing before reuse. Do not get in eyes, on skin, or on clothing. Ground/bond container and receiving equipment. Wear protective gloves/clothing and eye/face protection. When using, do not eat, drink, or smoke. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Do not breathe gas, fumes, vapor, or spray. Wash thoroughly after handling. **Keep out of the reach of children.**

Conditions for Safe Storage, Including any Incompatibilities:

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep cool Do not cut, puncture, or weld on or near this container. Empty containers may contain product residue.

Incompatible Materials:

Acids, bases, strong oxidizing agents

SECTION 8 – EXPOSURE CONTROL & PERSONAL PROTECTION

Workplace Exposure Standards:

A workplace exposure standard has not been established by Worksafe NZ for this product. There is a general limit of 10mg/m³ for dusts and mists when limits have not otherwise been established.

NZ Workplace Exposure Standards

Ingredient	CAS	WES-TWA	WES-STEL
Magnesium oxide MgO	1309-48-4	10mg/m ³ (fume)	Data unavailable
Zinc oxide		5mg/m ³ (fume)	Data unavailable
Toluene	108-88-3	50ppm, 188mg/m ³ (skin)	Data unavailable
Acetone	67-64-1	500ppm, 1185mg/m ³	1000ppm, 2375mg/m ³
Xylenes (o-, m-, p- isomers)	1330-20-7	50ppm, 217mg/m ³	Data unavailable

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

Personal Protective Equipment:



Biological limit value - There are no biological limit values for any of this product's components.

Engineering Controls - Provide local exhaust ventilation system. If necessary, use appropriate local exhaust ventilation to keep exposures below the regulated limits.

Individual Protection Measures, such as Personal Protective Equipment Eye/face protection

Wear splash resistant safety goggles with a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Skin Protection

Wear chemical resistant clothing and rubber boots when potential for contact with the material exists. Thoroughly clean and dry contaminated clothing before reuse.

Respiratory Protection

In case of inadequate ventilation wear respiratory protection. Glove Recommendations Wear appropriate chemical resistant gloves.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance	Yellow liquid	Physical State	Liquid
Odour	Hydrocarbon	Colour	Yellow
Odour Threshold	Not available	pH	Not available
Melting Point	-48°C	Boiling Point	56 – 139°C
Freezing Point	Not available	Evaporation Rate	0.6 – 0.83
Boiling Point Range	Not available	Flammability (solid, gas)	Not available
Auto-ignition	223°C	Flash Point	10°C
Lower Explosive Limit	1.1 %	Decomposition	Not available
Upper Explosive Limit	12.8 %	Vapor Pressure	6.7 mm Hg (@ 204 °C)
Vapor Density (air=1)	2 - 3.7	Specific Gravity (water=1)	0.84
Water Solubility	Negligible	Partition coefficient:	Not available
Viscosity	2500 cps	Solubility (Other)	Not available
Density	Not available	Volatility	79 – 83 %

SECTION 10 – STABILITY & REACTIVITY

Reactivity	No reactivity hazard is expected
Chemical Stability	Stable under normal conditions of use.
Possibility of Hazardous Reactions	Hazardous polymerization will not occur
Conditions to Avoid	Avoid heat, flames, sparks, and other sources of ignition. Avoid contact with incompatible materials.
Incompatible Materials	Acids, bases, strong oxidizing agents
Hazardous decomposition products	Oxides of carbon, oxides of nitrogen

SECTION 11 – TOXICOLOGICAL INFORMATION

Inhalation	Vapor or mist may cause respiratory tract irritation. May cause central nervous system effects. May cause nausea, dizziness, drowsiness and headache
Skin Contact	Causes skin irritation
Eye Contact	Causes serious eye irritation.
Ingestion	May cause gastrointestinal irritation.
Immediate Effects	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Central nervous system damage, kidney damage, liver damage, respiratory system damage, nervous system effects.
Delayed Effects	May cause respiratory irritation, central nervous system, kidneys, nervous system, blood, liver.
Irritation/Corrosivity Data	Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.
Respiratory Sensitization	No information available for the product.
Dermal Sensitization	No information available for the product.

Acute and Chronic Toxicity Component Analysis - LD50/LC50:

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Zinc oxide (1314-13-2)	Oral LD50 Rat >5000 mg/kg
Phenol, 4-methyl-, reaction products with dicyclopentadiene and isobutylene (68610-51-5)	Oral LD50 Rat >200 mg/kg Dermal LD50 Rabbit >5010 mg/kg Inhalation LC50 Rat >165 mg/L 1 h
Toluene (108-88-3)	Oral LD50 Rat 2600 mg/kg Dermal LD50 Rabbit 12,000 mg/kg Inhalation LC50 Rat 12.5 mg/L 4 h
Solvent naphtha, petroleum, light aliphatic (64742-89-8)	Oral LD50 Mouse 5,000 mg/kg Dermal LD50 Rabbit 3,000 mg/kg
Acetone (67-64-1)	Inhalation LC50 Rat 50,100 mg/m ³ 8 h
Xylenes (o-, m-, p- isomers) (1330-20-7)	Oral LD50 Rat 3500 mg/kg Dermal LD50 Rabbit >4350 mg/kg Inhalation LC50 Rat 29.08 mg/L 4 h
Water (7732-18-5)	Oral LD50 Rat >90 mL/kg

Component Carcinogenicity

Polychloroprene	Proprietary
IARC:	Supplement 7 [1987]; Monograph 19 [1979](Group 3 (not classifiable))
Magnesium oxide (MgO)	1309-48-4
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
Toluene	108-88-3
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))
Acetone	67-64-1
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
Xylenes (o-, m-, p- isomers)	1330-20-7
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))

Germ Cell Mutagenicity	May cause genetic defects.
Reproductive Toxicity	May damage fertility or the unborn child
Specific Target Organ Toxicity - Single Exposure	Central nervous system, kidney, liver, respiratory system, nervous system.
Specific Target Organ Toxicity - Repeated Exposure	Central nervous system, kidney, nervous system, respiratory system, blood, liver.
Aspiration hazard	Aspiration Hazard. Aspiration into the lungs may cause damage. May be fatal if swallowed and enters airways.
Medical Conditions Aggravated by Exposure	No data available.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity: No additional information available.

Component Analysis - Aquatic Toxicity

Toluene	108-88-3
Fish	LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L [flow-through] (1 day old); LC50 96 h Pimephales promelas 12.6 mg/L [static]; LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L [static]; LC50 96 h Oncorhynchus mykiss 5.8 mg/L [semi-static]; LC50 96 h Lepomis macrochirus 11 - 15 mg/L [static]; LC50 96 h Oryzias latipes 54 mg/L [static]; LC50 96 h Poecilia reticulata 28.2 mg/L [semi-static]; LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L [static]
Algae	EC50 96 h Pseudokirchneriella subcapitata >433 mg/L IUCLID; EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L [static] EPA
Invertebrate	EC50 48 h Daphnia magna 5.46 - 9.83 mg/L [static] EPA; EC50 48 h Daphnia magna 11.5 mg/L IUCLID
Solvent naphtha, petroleum, light aliphatic	64742-89-8
Algae	EC50 72 h Pseudokirchneriella subcapitata 4700 mg/L IUCLID
Acetone	67-64-1
Fish	LC50 96 h Oncorhynchus mykiss 4.74 - 6.33 mg/L; LC50 96 h Pimephales promelas 6210 - 8120 mg/L [static]; LC50 96 h Lepomis macrochirus 8300 mg/L
Invertebrate	EC50 48 h Daphnia magna 10294 - 17704 mg/L [static] EPA; EC50 48 h Daphnia magna 12600 - 12700 mg/L IUCLID
Xylenes (o-, m-, p- isomers)	1330-20-7
Fish	LC50 96 h Pimephales promelas 13.4 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 2.661 - 4.093 mg/L [static]; LC50 96 h Oncorhynchus mykiss 13.5 - 17.3 mg/L; LC50 96 h Lepomis macrochirus 13.1 - 16.5 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 19 mg/L; LC50 96 h Lepomis macrochirus 7.711 - 9.591 mg/L [static]; LC50 96 h Pimephales promelas 23.53 - 29.97 mg/L [static]; LC50 96 h Cyprinus carpio 780 mg/L [semi-static]; LC50 96 h Cyprinus carpio >780 mg/L; LC50 96 h Poecilia reticulata 30.26 - 40.75 mg/L [static]
Invertebrate	EC50 48 h water flea 3.82 mg/L; LC50 48 h Gammarus lacustris 0.6 mg/L
Algae	EC50 72 h Pseudokirchneriella subcapitata 11 mg/L IUCLID (related to Aromatic hydrocarbons, C7-12, C8-rich)

Persistence and Degradability - No information available for the product.

Bio-accumulative Potential - No information available for the product.

Mobility - No information available for the product.

Other Toxicity - No additional information available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal Methods:

Dispose of contents/container in accordance with local/regional/national/international regulations.

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:	Adhesives
UN #	UN1133
Hazard Class:	3
Packing Group:	II
HAZCHEM Code	3YE
Precautions:	Flammable Liquid

SECTION 15 – REGULATORY INFORMATION

This product is an approved substance under the Hazardous Substances and New Organisms Act (HSNO, Approval HSR002662, Surface Coatings and Colorants (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 > 1000 litres is stored
Certified Handler	Not required
Tracking	Not required
Bunding & Secondary Containment	Required if > 1000 litres is stored
Signage	Required if > 250 litres is stored in one location
Location Compliance Certificate	Required if > 100L (containers > 5L), 250 litres (≤5L containers) 50L (in use) is stored in any one location
Flammable Zone	Must be established if > 100L (closed containers), 25L (decanting), 5L (open occasionally), 1L (in use) is stored in any one location
Fire Extinguisher	If > 250L is present

Section 16 – OTHER INFORMATION

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
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)
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
April 2022	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.