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SAFETY DATA SHEET INFORMATION
For further information: Please refer to the Safety Data Sheet following

Issue: May 24

PRODUCT: Embercoat
PRODUCT CODE:
Other Names: Embercoat

Uses:
Signal Word Danger

UN No.:	N/R
Dangerous Goods Class:	N/R
Subsidiary Risk:	None
Packing Group:	N/R
Hazchem Code:	N/R
IMDG:	N/R

Hazard Category:	This product is classified as hazardous under the GHS criteria.
Hazard Statement:	Toxic Liquid and Vapour
GHS Classification:	Specific Target Organ Toxicity (Repeated Exposure): 1 - Carcinogen 1b; Acute Aquatic Toxicant: 2; Chronic Aquatic Toxicant: 3
REACH Statement:	This product does not include any listed SVHC Candidate chemicals.
HSNO Classification:	HSR002544: Construction Products
Exposure Standards:	TWA: None specified. Consider 5 g/m^3; STEL: None specified. Consider 10 g/m^3

Physical Characteristics (Typical) — Section 9 of the SDS

Appearance	White, milky emulsion
Boiling Point/Range (°C):	>100
Flash Point (°C):	> 100
Specific Gravity/Density (g/ml @ 15°C):	1.05 – 1.15
pH:	7 – 9
Chemical Stability:	Stable at room temperature and pressure
Reactivity:	Not determined

Product Ingredients — Section 3 of the SDS

Ingredient	CAS Number	EINECS Number	Proportion
Ingredients determined not to be hazardous	various	various	< 80
Ammonia	1336-21-6	215-647-6	< 0.5
Preservative: CIT/MIT	55965-84-9	220-239-6	< 0.5
For further ingredients information, please refer to the full SDS			

GHS Pictograms — Section 2 of the SDS

DEFINITIONS

Dangerous Goods	Products that are regulated for transport under the UN International guidelines are classified as Dangerous Goods. Products can be classified by their physical characteristics and may have only one Dangerous Goods designation, although may have a subsidiary risk. These products may be Dangerous Goods for transport by Air and Sea, but may not be classed as Dangerous Goods by Road and Rail in Australia. Refer to the Australian Code for Transport of Dangerous Goods by Road and Rail (ADG) for more information.
Hazardous Substances	Hazardous Substances are those products that are intrinsically hazardous by virtue of their chemical nature, rather than as a condition of their misuse. These hazards include mutagens, teratogens, carcinogens, and products that are harmful or irritant in nature. These products may or may not carry a Dangerous Goods classification. Hazardous Chemicals can attract a number of classifications, which are identified by the pictograms (if any) indicated on the SDS or label.

1. IDENTIFICATION

Product Name:	Embercoat
Product Code:	
Other Names:	Embercoat
Chemical Family:	Mixture
Molecular Formula:	Not available
Recommended Use:	Fire Retardant Coating
Supplier:	Shieldcoat Pty Ltd.
ACN:	090 620 410
Address:	100 Southlink Street, Parkinson QLD 4115 | 7 Woodson Place Wairau Valley Auckland 0629
Telephone:	+61 7 3274 6911 (During office hours: 9am – 5pm)
Emergency Phone:	**+ 61 412 275 776** (AUS) | **+ 64 272 838 765** (NZ)
All other inquiries:	shieldcoat.com.au | shieldcoat.co.nz

2. HAZARDS IDENTIFICATION

Hazard Category

This product is classified as hazardous under the GHS criteria.

GHS Classification

Specific Target Organ Toxicity (Repeated Exposure): 1 - Carcinogen 1b; Acute Aquatic Toxicant: 2; Chronic Aquatic Toxicant: 3

REACH Statement

This product does not include any listed SVHC Candidate chemicals.

HSNO Classification

HSR002544: Construction Products

GHS Pictograms

Hazard Statement

Toxic Liquid and Vapour

Hazard Statements

H351: Suspected of causing cancer
H373: May cause damage to organs through prolonged or repeated exposure
H401: Toxic to aquatic life
H411: Toxic to aquatic life with long lasting effects

Precautionary Statements

P102: Keep out of reach of children.
P201: Obtain special instructions before use.
P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+312+101: IF SWALLOWED: Call a POISON CENTER/doctor, if you feel unwell, and have product container or label at hand.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P333+313: If skin irritation or a rash occurs: Get medical advice/attention.

P501: Dispose of contents, or container in accordance with local/regional/national/international regulation.

Dangerous Goods Classification N/R

Signal Word Danger

Supplemental Hazard information (EU)[58]: Not applicable.

REACH Statement: This product does not include any listed SVHC Candidate chemicals.

HSNO Labelling: Not-regulated for transport.

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS Number	EC Number	Proportion (% v/v)
Ingredients determined not to be hazardous	various	various	< 80
Ammonia	1336-21-6	215-647-6	< 0.5
Preservative: CIT/MIT	55965-84-9	220-239-6	< 0.5
Contains: benzophenone	119-61-9	204-337-6	< 0.15

4. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone Australia: 13 1126 | New Zealand: 0800 764 766) or a doctor. In Europe, for advice contact Poisons Centre https://poisoncentres.echa.europa.eu or your local doctor.

Ingestion

If swallowed, DO NOT induce vomiting. Keep at rest. Seek immediate medical attention.

Eye Contact

Flush eyes with large amounts of water until irritation subsides. Seek immediate medical attention.

Skin Contact

Flush area with large amounts of water and wash area with soap if available. Remove contaminated clothing, including shoes, and launder before reuse. Seek medical attention for skin irritations.

Inhalation

Using proper respiratory protection, immediately remove the affective victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Seek immediate medical attention.

First Aid Facilities

Provide eye baths and safety showers.

Medical Attention

Treat according to symptoms.

5. FIRE FIGHTING MEASURES

This product is unlikely to pose a combustion risk, nor provide a significant 'fuel' hazard. If possible, segregate the product from the source of the fire, if safe to do so. Allow trained personnel to attend a fire in progress providing fire fighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable Extinguishing Media

Water spray, water fog or fine mist, alcohol foam.

Precautions for fire fighters and special protective equipment

Full protective clothing and self-contained breathing apparatus

Hazchem Code

N/R

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

This product is supplied in small quantities; however, if stored with large quantities of similar packaged product, consider the following action:

- Prevent product from escaping to drains and waterways;
- Contain leaking packaging in a suitable receptacle;
- Prevent vapours or fumes from building up in confined areas;
- Ensure that drain valves are closed at all times (in case of use with fire fighting liquid/foam); and
- Clean up and report spills immediately.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Use grounding leads to avoid discharge (electrical spark).

Conditions for Safe Storage

Store in a cool, dry place away from direct sunlight.

Incompatible Materials

None specified

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

National Exposure Standards

The time weighted average concentration (TWA) for this product is: None specified. Consider 5 g/m^3, which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short term exposure limit (STEL) is: None specified. Consider 10 g/m^3, which is the maximum allowable exposure concentration at any time. Replacing a TWA or STEL value for some products is a Peak Limitation value (Peak): None applies in this case. In addition to the exposure concentrations may be a subsidiary caution in such cases where the product is a skin sensitiser, represented as (Sen), where none applies in this case.

Biological Limit Values (BLV)

None specified

Engineering Controls: Ventilation

The use of local exhaust ventilation is not essential to control process emissions near the source. Laboratory samples can be handled in a fume hood, but are safely managed at open benches. Consider mechanical ventilation of confined spaces. Explosion proof equipment is not required when handling this product.

It is recommended that standard industrial hygiene practices are employed when using this product, e.g. it is recommended to wash hands after using this product, before eating, drinking, or smoking.

Personal Protective Equipment

Respiratory Protection: It is unlikely that vapour concentrations in air may approach or exceed the limits described in the National Exposure Standards; however, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type 'A' filter material is considered suitable for this product.

Eye Protection: Consider the use of safety glasses when handling this product, as standard industrial hygiene practice; protective eye wear is not essential when using this product.

Skin/Body Protection: There is no essential recommended outer-wear required when handling this product. For further information on skin protection, refer to Section 11: Skin Contact effects.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical Value
Appearance	None	White, milky emulsion
Boiling Point/Range	°C	>100

Property	Unit of measurement	Typical Value
Flash Point	°C	> 100
SG/Density (@ 15°C)	g/ml; kgm^{-3}	1.05 – 1.15
Vapour Pressure @ 20°C	kPa	Not determined
Vapour Density @ 20°C	g/ml; kgm^{-3}	Not determined
Autoignition Temperature	°C	> 400
Explosive Limits in Air	% vol/vol	Not determined
Viscosity @ 20°C	cPs, mPas	1000
Percent volatiles	% vol/vol	> 30
Acidity/alkalinity as pH	None	7 – 9
Solubility in Water	g/l	Miscible
Other solvents	-	Alcohols, glycols

The values listed are indicative of this product's physical and chemical properties. A Certificate of Analysis for each product batch can be made available on request.

10. STABILITY AND REACTIVITY

Chemical stability

Stable at room temperature and pressure

Conditions to avoid

Not determined

Hazardous decomposition products

Carbon dioxide, carbon monoxide, and nitrogen complexes on decomposition or incomplete oxidation

Hazardous reactions

None known

Hazardous polymerisation

Will not occur

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

This material may cause irritation to the throat and tube to the stomach and may cause nausea if ingested in large doses. There are no narcotic effects expected.

Eye Contact

This product is unlikely to present a risk to eyes or eye tissue either directly, or through vapours. There is a risk of grit in eyes, which will present an irritation, but with flushing and first aid, will subside quickly.

Skin Contact

This product is unlikely to present a risk in contact with skin, unless the user has pre-existing skin conditions, e.g. psoriosis, or irritations.

Inhalation

This product is very low odour, and is not likely to have any vapour effects even at elevated temperatures. It is not expected to result in narcotic effects on inhalation, even in confined spaces.

Chronic Effects

This product has an ingredient that is suspected of causing cancer, albeit in very small quantities; prolonged or repeated contact with this product may result in damage to organs. Apply PPE to limit routes of exposure and observe health precautions.

Other Health Effects Information

Persons with pre-existing skin conditions will be sensitive to this product.

Toxicological Information

Oral LD_{50}: Rat: >2000 mg/kg

Dermal LD_{50}: Rabbit: >2000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity (Acute):

Fish Toxicity LC_{50}:	This product is likely to be harmful to aquatic life
Daphnia Magna EC_{50}:	This product is likely to be harmful to aquatic life
Blue-green algae:	This product is likely to be harmful to aquatic life
Green algae:	This product is likely to be harmful to aquatic life

Aquatic Toxicity (Chronic):

Fish Toxicity LC_{50}:	This product is likely to be harmful to aquatic life
Daphnia Magna EC_{50}:	This product is likely to be harmful to aquatic life
Blue-green algae:	This product is likely to be harmful to aquatic life
Green algae:	This product is likely to be harmful to aquatic life

Persistence/Biodegradability: Elements of this product are expected to persist.

Bioaccumulative Potential: This mixture does not contain any substances that are assessed to be a Persistent, Bioaccumulative and Toxic (PBT) Substance.

Mobility: This is likely to be mobile on release to waterways, grasslands or soils.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

This product is not considered to pose an environmental threat when dry, and is safe for disposal to landfill. Our company does encourage recycling, and empty packaging is suitable for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities in these instances. Consult the List of Wastes (LoW) for management.

Special Precautions

Dry product is suitable for disposal by landfill; and, it is discouraged to dispose of these products via municipal sewers, drains, natural streams or rivers. Wet product and packaging should be treated and disposed through chemical waste treatment, or considered for use in recycling. There are no specific instructions for recycling this product or its packaging.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	N/R	**UN No.**	N/R	**UN No.**	N/R
Proper Shipping Name	Paint & Paint related materials	**Proper Shipping Name**	Paint & Paint related materials	**Proper Shipping Name**	Paint & Paint related materials
DG Class	N/R	**DG Class**	N/R	**DG Class**	N/R
Sub. Risk	None	**Sub. Risk**	None	**Sub. Risk**	None
Packing Group	N/R	**Packing Group**	N/R	**Packing Group**	N/R
Hazchem	N/R	**Hazchem**	N/R	**Hazchem**	N/R
IMDG	N/R	**IMDG**	N/R	**IMDG**	N/R

Dangerous Goods Segregation

This product is not regulated for transport by Road and Rail.

Environmental Hazards

Elements of this product are expected to persist.

Special Precautions for Transport

Transport in bulk according to Annex II of MARPOL and the IBC Code.

15. REGULATORY INFORMATION

Country/Region: Australia, New Zealand, Europe, Asia
Inventory: AICIS, ECHA, HSNO
Status: Listed
UN Number: N/R
Dangerous Goods Class: N/R
Subsidiary Risk: None
Packing Group: N/R
Hazchem Code: N/R
IMDG: N/R
EU Labelling: This product contains an ingredient suspected of causing cancer.
HSNO Labelling: Not-regulated for transport.

16. OTHER INFORMATION

Reasons for Issue: New product; amalgamated supplier and regulatory updates in all sections

Abbreviations:

AICIS: Australian Industrial Chemicals Introductory Scheme
AICS: Australian Inventory of Chemical Substances
ATE: Acute Toxicity Estimate
CAS Number: Chemical Abstracts Number
EC: European Chemical identification number
ECHA: Classification and Labelling Inventory
EINECS: European Inventory of Existing Chemical Substances
GESTIS: German Listing of Hazardous Substance by Occupational Limit Values, occupational medicine
GHS: Globally Harmonised System
HSNO: Hazardous Substances and New Organisms Act
IARC: International Agency for Research on Cancer
IUCLID: International Uniform Chemical Information Database
LC_{50}: Lethal Concentration to 50% of sample population
LD_{50}: Lethal Dose to 50% of sample population
LoW: List of Wastes
N/A: Not applicable
N/R: Non-regulated
PEC: Predicted Effect Concentration
PNEC: Predicted Non-effect Concentration
PPE: Personal Protective Equipment
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
UN: United Nations

References:

- Supplier Safety Data Sheets
- http://hsis.safework.gov.au/SearchHS.aspx (May 24)
- Animal toxicology data: http://chem.sis.nlm.nih.gov/chemidplus (May 24)
- Ecotoxicology data: https://cfpub.epa.gov/ecotox/search.cfm (May 24)
- ECHA Europa: https://echa.europa.eu/advanced-search-for-chemicals (May 24)
- NZ CCID: https://tinyurl.com/yv694r2p (May 24)

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses, but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact Pepperberg Pty Ltd.