

SAFETY DATA SHEET INFORMATION

For further information: Please refer to the Safety Data Sheet following

Issue: 22 September 26

PRODUCT: Opal EPDM

Other Names: Ethylene Propylene Diene Monomer

Uses: coloured granule rubber

Signal Word: None

UN No.: N/R

Dangerous Goods Class: N/R

Subsidiary Risk: None

Packing Group: N/R

Hazchem Code: N/R

Hazardous Nature:	This product is classified as not hazardous according to Australian GHS criteria.	
Hazard Statement:	No GHS Hazard Classification applies	
Exposure Standards:	TWA: Not applicable; STEL: Not applicable; Peak Limitation (if any): None; Skin Sensitiser (if any): none. Refer to Section 8 for further information and definitions.	
Physical Characteristics (Typical)		Section 9 of the SDS
Appearance	Coloured granule rubber	
Boiling Point/Range (°C):	Not applicable	
Flash Point (°C):	Not applicable	
Specific Gravity/Density (g/ml @ 20°C):	Not applicable	
pH:	Not applicable	
Chemical Stability:	Stable at room temperature and pressure	
Reactivity:	Extreme heat, aromatic solvents and resin solutions	
Product Ingredients		Section 3 of the SDS
<u>Ingredient</u>	<u>CAS Number</u>	<u>Proportion</u>
EDPM	various	< 100
Colourants	various	> 10
For further ingredients information, please refer to the full MSDS		
Pictograms		Section 2 of the SDS
Not hazardous: intentionally left blank		

DEFINITIONS

Dangerous Goods	Products that are regulated for transport by Road and Rail under the national guide are Dangerous Goods. Products can be classed as Dangerous Goods if they have a flash point below 60.5°C, a pH below 3 or above 11, are explosives or toxic. These goods will be allocated a UN No., Packing Group, Hazchem Code, and possibly a subsidiary risk.
Hazardous Substances	Hazardous Substances are those products that are intrinsically hazardous by nature, rather than by misuse. These include mutagens, teratogens, carcinogens, products that are toxic (but not sufficiently toxic to be classed as Dangerous Goods or carry a subsidiary risk), and products that pose environmental risks.

1. IDENTIFICATION

Product Name: Opal EPDM
Other Names: Ethylene Propylene Diene Monomer
Chemical Family: Rubber crumb
Molecular Formula: No data available
Recommended Use: coloured granule rubber
Supplier: A1 Rubber
ABN: 92 095 559 130
Address: 34 Binary Street, Yatala Qld 4207
Telephone: +61 7 3807 3666
Emergency Phone: **0455 070 954**
All other inquiries: +61 7 3807 3666

2. HAZARDS IDENTIFICATION

Hazardous Nature

This product is classified as not hazardous according to Australian GHS criteria.

Hazard Statement

No GHS Hazard Classification applies

Pictograms

Not hazardous: intentionally left blank

Hazard

Not hazardous: intentionally left blank

Hazard Statements

Not hazardous: intentionally left blank

Precautionary Statements

Not hazardous: intentionally left blank

Dangerous Goods Classification N/R

Signal Word None

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS Number	Proportion (% v/v)
EDPM	various	< 100
Colourants	various	> 10

4. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone Australia: 13 1126) or a doctor.

Ingestion

Seek medical attention if swallowed.

Eye Contact

Seek immediate medical attention if contact with eyes produces irritation.

Skin Contact

Seek immediate medical attention for skin irritations.

Inhalation

Seek immediate medical attention if inhalation causes irritation.

First Aid Facilities

None

Medical Attention

Treat according to symptoms.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a 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, carbon dioxide, dry powder, or chemical foam

Hazards from combustion products

Irritant fumes, carbon dioxide and carbon monoxide

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**

Prevent product from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours or dusts from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

Methods and materials for containment***Major Land Spill***

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard, where present.
- Prevent product from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimise the effect on the ground water.
- Contain the spilled product using the resources in the spill kit.
- Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See "First Aid Measures" and "Stability and Reactivity"

Major Water Spill

- Eliminate any sources of ignition.
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard, where present.
- Notify the port or relevant authority and keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Confine the spill if possible.
- Remove the product from the surface by skimming or with suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See "First Aid Measures" and "Stability and Reactivity".

7. HANDLING AND STORAGE**Precautions for Safe Handling**

This product will not burn unless deliberately lit. Will fuel a fire in progress. Avoid contact with extreme heat and naked flame. Use appropriate industrial hygiene practices.

Conditions for Safe Storage

Store in a cool, dry place away from sunlight.

Incompatible Materials

None known

8. EXPOSURE CONTROLS: PERSONAL PROTECTION**National Exposure Standards**

The time weighted average concentration (TWA) for this product is: Not applicable, 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: Not applicable, 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 sensitizer, represented as (Sen), where none applies in this case.

Biological Limit Values (BLV)

None established

Engineering Controls: Ventilation

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion proof equipment.

Personal Protective Equipment

Respiratory Protection: Where concentrations in air may approach or exceed the limits described in the National Exposure Standards, 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: Always use safety glasses or a face shield when handling this product.

Skin/Body Protection: Always wear long sleeves, long trousers, or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves be worn when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical Value
Appearance	None	Coloured granule rubber
Boiling Point/Range	°C	Not applicable
Flash Point	°C	Not applicable
SG/Density (@ 20°C)	g/ml; kgm ⁻³	Not applicable
Vapour Pressure @ 20°C	kPa	Not applicable
Vapour Density @ 40°C	g/ml; kgm ⁻³	Not applicable
Autoignition Temperature	°C	No data available
Explosive Limits in Air	% vol/vol	No data available
Viscosity @ 20°C	cPs, mPas	Not applicable
Percent volatiles	% vol/vol	Nil
Acidity/alkalinity as pH	None	Not applicable
Solubility in Water	g/l	Not soluble
Other solvents	-	Not soluble

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Technical Data Sheet.

10. STABILITY AND REACTIVITY

Chemical stability

Stable at room temperature and pressure

Conditions to avoid

Extreme heat, aromatic solvents and resin solutions

Hazardous decomposition products

Carbon dioxide and carbon monoxide

Hazardous reactions

None known

Hazardous polymerisation

Will not occur

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

Swallowing is unlikely (solid, rubber matting).

Eye Contact

No expected effect to eyes.

Skin Contact

Skin contact will have no adverse effect.

Inhalation

Inhalation of this product is unlikely (solid, rubber matting).

Chronic Effects

There are no known chronic effects of this product. Although unlikely, persons with pre-existing chemical sensitivities may be adversely affected by this product.

Other Health Effects Information

None

Toxicological Information

Oral LD₅₀: No data available

Dermal LD₅₀: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity:

Fish Toxicity LC ₅₀ :	No data available
Daphnia Magna EC ₅₀ :	No data available
Blue-green algae:	No data available
Green algae:	No data available

Persistence/Biodegradability:

This product is not regarded as biodegradable.

Mobility:

This product is not mobile, nor likely to contaminate the environment.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still

contain product residue that may be harmful. Ensure that empty packaging is managed in accordance with Dangerous Goods regulations.

Special Precautions

This product is not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product should be treated and disposed through chemical waste treatment, or considered for use in recycling.

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	EDPM	Proper Shipping Name	EDPM	Proper Shipping Name	EDPM
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

Dangerous Goods Segregation

This product is not classified as Dangerous Goods for Transport by Road and Rail.

15. REGULATORY INFORMATION

Country/Region: Australia

Inventory: AICS

Status: Listed

16. OTHER INFORMATION

Reasons for Issue: Updated SDS; new manufacturers information in all sections.

Abbreviations:

AICIS: Australian Industrial Chemicals Introduction Scheme

AICS: Australian Inventory of Chemical Substances

ATE: Acute Toxicity Estimate

CAS Number: Chemical Abstracts Number

GHS: Globally Harmonised System

IARC: International Agency for Research on Cancer

IUCLID: International Uniform Chemical Information Database

PPE: Personal Protective Equipment

EC: European Chemical identification number

EINECS: European Inventory of Existing Chemical Substances

IChEMS: Industrial Chemicals Environmental Management Standard

LoW: List of Wastes

LC₅₀: Lethal Concentration to 50% of sample population

LD₅₀: Lethal Dose to 50% of sample population

N/R: Non-regulated

N/A: Not applicable

PEC: Predicted Effect Concentration

PNEC: Predicted Non-effect Concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons

UN: United Nations

References:

- Supplier Safety Data Sheets
- <http://hcis-old.safeworkaustralia.gov.au/HazardousChemical> (September 26)
- <https://tinyurl.com/ECHA-Reach-Chemical-Search> (September 26)
- Animal toxicology data: <https://portal.apvma.gov.au/pubcris> (September 26)
- Ecotoxicology data: <https://cfpub.epa.gov/ecotox> (September 26)

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 A1 Rubber.
