

SAFETY DATA SHEET

Anti-Flush Seal



SECTION 1: Identification Of The Substance And Supplier

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| Product Name: | Anti-Flush Seal |
| Other Name: | Cationic Quick Setting Bituminous Emulsion |
| Recommended Use: | Product is predominantly used in road making |
| Company Details: | Road Science |
| Address: | 345 Matakokiri Drive Omanawa, Tauranga, 3173 |
| Telephone Number: | 07 575 1150 |
| Emergency Telephone Number: | 07 575 1150 24hr / 7 days or National Poisons Centre 0800 POISON (0800 764 766) |
| Specified Jurisdiction: | European Union |
| Relevant Law: | Regulation (EU) 2015/830 |

SECTION 2: Hazards Identification

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| Hazard Statement: | No Significant Hazard |
|-------------------|-----------------------|

SECTION 3: Composition/Information On Ingredients

| Chemical Name | Index No. | CAS No. | EC No. | Conc. (%w/w) | Classification |
|------------------------------------|------------|--------------|-----------|--------------|--|
| Amidoamine | 31/03/2010 | 1379524-06-7 | 800-353-8 | | Skin Corr. 1B: H314; Skin Sens. 1: H317; Eye Dam. 1: H318; Aquatic Acute 1: H400; Aquatic Chronic 1: H410; |
| Bitumen (Asphalt, petroleum fumes) | | 8052-42-4 | 232-490-9 | 50 - 60% | |
| Water | | 7732-18-5 | 231-791-2 | 30 - 40% | |

SECTION 4: First Aid Measures

Description of first aid measures:

Inhalation: May cause irritation to mucous membranes. Move the exposed person to fresh air.

Eye contact: Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.

Skin contact: May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.

Ingestion: May cause irritation to mucous membranes. DO NOT INDUCE VOMITING. Seek medical attention if irritation or symptoms persist.

SECTION 5: Fire-Fighting Measures

Extinguishing Media: Use extinguishing media appropriate to the surrounding fire conditions.

Special hazards arising from the substance or mixture: Burning produces irritating, toxic and obnoxious fumes.

Advice for firefighters: Wear suitable respiratory equipment when necessary.

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures - Ensure adequate ventilation of the working area.

Environmental precautions – Do not allow product to enter drains. Prevent further spillage if safe.

Methods and material for containment and cleaning up – Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.

SECTION 7: Handling and Storage

Precautions for Safe Handling: Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best

Manual Handling considerations when handling, carrying and dispensing.

Conditions for Safe Storage: Keep in a cool, dry, well ventilated area. Store in correctly labelled containers.

SECTION 8: Exposure Control/Personal Protection

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| Exposure Limit Values Bitumen (Asphalt, petroleum fumes) | WEL 8-hr limit ppm: - WEL 15 min limit ppm: - WEL 8-hr limit mg/m3 total inhalable dust: WEL 8-hr limit mg/m3 total respirable dust: | WEL 8-hr limit mg/m3: 5 WEL 15 min limit mg/m3: 10 WEL 15 min limit mg/m3 total inhalable dust: -WEL 15 min limit mg/m3 total respirable dust: |
| Exposure controls | Appropriate engineering controls Individual protection measures Eye/face protection Skin/Hand Protection | Ensure adequate ventilation of the area. Wear protective clothing. In case of splashing, wear: approved safety goggles. PVC gauntlet gloves. |

SECTION 9: Physical and Chemical Properties

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| Appearance: | Liquid |
| Colour | Brown |
| Odour | Slight |
| Freezing Point | ~ 0 °C |
| Initial boiling point | ~ 100 °C |
| Flash point | No data available |
| Vapour pressure | No data available |
| Vapour density | No data available |
| Relative density | ~ 1 (H2O = 1 @ 20 °C) |
| Autoignition temperature | Not applicable |
| Explosive properties | Not applicable |

SECTION 9: Physical and Chemical Properties

| | | |
|----------------------------|---|-----------|
| Physical Appearance: | At normal room temperature these products are black rubbery solids. During use, product is heated to melting point and is a black liquid. | |
| Melting Point: | 50 – 95°C | |
| Boiling Point: | Not available | |
| Vapour Pressure: | No data | |
| Vapour Density: | No data | |
| Water Solubility: | Insoluble | |
| pH: | Not applicable | |
| Specific Density: | 1.010 – 1.033 | |
| Flashpoint: | No data | |
| Flammability Limits: | LEL: 0.3% | UEL: 6.0% |
| Auto-ignition Temperature: | No data | |

SECTION 10: Stability and Reactivity

Reactivity: Alkalis.

Chemical stability: Stable under normal conditions.

Conditions to avoid: Do NOT allow to freeze. Protect from frost.

Incompatible materials: Alkalis.

Hazardous decomposition products: No Data Available.

SECTION 11: Toxicological Information

Information on toxicological effects: No Significant Hazard.

SECTION 12: Ecotoxicity Information

Toxicity

Amidoamine

Daphnia EC50/48h: 1 mg/l

Algae IC50/72h: 0.01 mg/l

SECTION 13: Disposal Considerations

General information – Dispose of in compliance with all local and national regulations.

SECTION 14: Transport Information

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| UN Number: | The product is not classified as dangerous for carriage. |
| UN Proper Shipping Name: | The product is not classified as dangerous for carriage. |
| Transport hazard class(es): | The product is not classified as dangerous for carriage. |
| Subsidiary Risk: | None allocated |
| Packing Group: | The product is not classified as dangerous for carriage. |
| Environmental Hazards: | The product is not classified as dangerous for carriage. |
| Special precautions for user | The product is not classified as dangerous for carriage. |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | The product is not classified as dangerous for carriage. |
| Further information | The product is not classified as dangerous for carriage. |

SECTION 15: Regulatory Information

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| Safety, health and environmental regulations/legislation specific for the substance or mixture: | Safety data sheets: according to Regulation (EC) No. 1907/2006 UK REGULATION Chip3: Chemical (Hazard Information and Packaging for Supply) Regulations 2002. |
| A chemical safety assessment | A chemical safety assessment has not been carried out.. |

SECTION 16: OTHER INFORMATION

Text of Hazard Statements in Section 3:

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Eye Dam. 1: H318 - Causes serious eye damage.

Aquatic Acute 1: H400 - Very toxic to aquatic life.

Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.

Further information:

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

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