

Safety Data Sheet

according to the United Nations GHS (Rev. 9, 2021)
Issue date: 9/26/2022 Revision date: 1/17/2024 Supersedes: 9/26/2022 Version: 2.0

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture

Product name : AS-4003 Fire Rated MS Sealant

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Sealants

1.4. Supplier's details

Manufacturer

Alseal Marketing Sdn. Bhd.
Lot 53, Jalan Industri 2/2, Rawang Integrated Industrial Park,
48000 Rawang, Selangor, Malaysia.
T +603-60942088 - F +603-60992930

1.5. Emergency phone number

No additional information available

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Hazardous to the aquatic environment - Chronic Hazard Not classified

Calculation method

Full text of H-statements: see section 16

Adverse physicochemical, human health and

environmental effects

: To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

No labelling applicable

2.3. Other hazards which do not result in classification

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | | Classification according to the United Nations GHS |
|-----------------------|--------------------|---------|--|
| TRIMETHOXYVINYLSILANE | CAS-No.: 2768-02-7 | 0.1 – 1 | Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Sens. 1B, H317 |

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| Name | Product identifier | % | Classification according to the United Nations GHS |
|--|---------------------|---------|---|
| N-(3- (TRIMETHOXYSILYL)PROPYL)ETHYLENEDIAMINE | CAS-No.: 1760-24-3 | 0.1 – 1 | Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 |
| DIBUTYLBIS(PENTANE-2,4-DIONATO-O,O')TIN | CAS-No.: 22673-19-4 | 0.1 – 1 | Skin Corr. 1A, H314 Repr. 1A, H360 STOT RE 1, H372 Aquatic Chronic 4, H413 |

Full text of H-statements: see section 16

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms/effects, acute and delayed

No additional information available

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective actions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and materials for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.

Other information : Dispose of materials or solid residues at an authorized site.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves
Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s)







8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Partition coefficient n-octanol/water (Log Kow)

: Solid Physical state : Paste Appearance Colour · White Odour : characteristic. Odour threshold : Not available Melting point : Not available Freezing point : Not applicable Not available Boiling point Flammability Non flammable. Lower explosion limit : Not applicable Upper explosion limit : Not applicable Flash point Not applicable Auto-ignition temperature : Not applicable : Not available Decomposition temperature Not available pΗ pH solution : Not available Viscosity, kinematic (calculated value) (40 °C) : Not applicable

: Not available

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Vapour pressure : Not available Vapour pressure at 50° C : Not available Density : $\approx 1.6 \text{ g/cm}^3$ Relative density : Not available Relative vapour density at 20° C : Not applicable Solubility : Not available Particle size : Not available

9.2. Data relevant with regard to physical hazard classes (supplemental)

Explosive limits : Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

LD50 oral rat

STOT-single exposure

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

N-(3-(TRIMETHOXYSILYL)PROPYL)ETHYLENEDIAMINE (1760-24-3)

| LD50 dermal | 2000 mg/kg |
|-----------------------------------|------------------|
| Skin corrosion/irritation | : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |

N-(3-(TRIMETHOXYSILYL)PROPYL)ETHYLENEDIAMINE (1760-24-3)

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure : Not classified

DIBUTYLBIS(PENTANE-2,4-DIONATO-O,O')TIN (22673-19-4)

STOT-repeated exposure Causes damage to organs through prolonged or repeated exposure.

: Not classified

2295 mg/kg

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Aspiration hazard : Not classified

AS-4003 Fire Rated MS Sealant

Viscosity, kinematic Not applicable

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long–term $\,$

(chronic)

: Not classified.

Classification procedure (Hazardous to the aquatic

environment, long-term (chronic))

: Calculation method

12.2. Persistence and degradability

AS-4003 Fire Rated MS Sealant

Persistence and degradability Not rapidly degradable

TRIMETHOXYVINYLSILANE (2768-02-7)

Persistence and degradability Not rapidly degradable

N-(3-(TRIMETHOXYSILYL)PROPYL)ETHYLENEDIAMINE (1760-24-3)

Persistence and degradability Not rapidly degradable

DIBUTYLBIS(PENTANE-2,4-DIONATO-O,O')TIN (22673-19-4)

Persistence and degradability Not rapidly degradable

12.3. Bioaccumulative potential

AS-4003 Fire Rated MS Sealant

Bioaccumulative potential No additional information available

12.4. Mobility in soil

AS-4003 Fire Rated MS Sealant

Mobility in soil No additional information available

12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with UN RTDG / IMDG / IATA

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| UN RTDG | IMDG | IATA | | |
|--|----------------|----------------|--|--|
| 14.1. UN number | | | | |
| Not applicable | Not applicable | Not applicable | | |
| 14.2. UN Proper Shipping Name | | | | |
| Not applicable | Not applicable | Not applicable | | |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | | |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | | |
| 14.5. Environmental hazards | | | | |
| Not applicable | Not applicable | Not applicable | | |
| No supplementary information available | | | | |

14.6. Special precautions for user

UN RTDG

Not applicable

IMDG

Not applicable

IATA

Not applicable

14.7. Transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other information

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Abbreviations and acronyms : CAS-No. - Chemical Abstract Service number

ATE - Acute Toxicity Estimate

EC50 - Median effective concentration
EC-No. - European Community number
IATA - International Air Transport Association
IMDG - International Maritime Dangerous Goods

LC50 - Median lethal concentration

LD50 - Median lethal dose

LOAEL - Lowest Observed Adverse Effect Level

N.O.S. - Not Otherwise Specified

NOAEC - No-Observed Adverse Effect Concentration

NOAEL - No-Observed Adverse Effect Level NOEC - No-Observed Effect Concentration OEL - Occupational Exposure Limit

SDS - Safety Data Sheet

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| Full text of H-statements: | |
|----------------------------|--|
| Acute Tox. 4 (Inhalation) | Acute toxicity (inhal.), Category 4 |
| Aquatic Chronic 4 | Hazardous to the aquatic environment – Chronic Hazard, Category 4 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Repr. 1A | Reproductive toxicity, Category 1A |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1A |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1B | Skin sensitisation, category 1B |
| STOT RE 1 | Specific target organ toxicity – Repeated exposure, Category 1 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |
| H226 | Flammable liquid and vapour |
| H314 | Causes severe skin burns and eye damage |
| H317 | May cause an allergic skin reaction |
| H318 | Causes serious eye damage |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H360 | May damage fertility or the unborn child |
| H372 | Causes damage to organs through prolonged or repeated exposure |
| H413 | May cause long lasting harmful effects to aquatic life |

Safety Data Sheet (SDS), UN

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.