

Safety Data Sheet

PLANISEAL MR_B

Safety Data Sheet dated: 29/5/2018 - version 1

Date of first edition: 29/5/2018



1. Identification

GHS Product identifier

Mixture identification:

Trade name: PLANISEAL MR_B

Trade code: 1666310

Recommended use of the chemical and restrictions on use

Recommended use: no data available

Uses advised against: no data available

Supplier's details

Company: MAPEI AUSTRALIA Pty Ltd

180 Viking Drive Wacol QLD 4076 Australia

T. +61 7 32765000 (Mon-Fri 8am to 4.30pm)

F. +61 7 32765076

Emergency phone number

Australian Poisons Information Centre 24 Hour Service 13 11 26

Police or Fire Brigade 000

2. Hazard identification



Classification of the Hazardous chemical

| | |
|---------------|--------------------------------------|
| Skin Irrit. 2 | Causes skin irritation. |
| Eye Dam. 1 | Causes serious eye damage. |
| Skin Sens. 1 | May cause an allergic skin reaction. |

Adverse physicochemical, human health and environmental effects:

No other hazards

GHS label elements, including precautionary statements

Pictograms and Signal Words



Danger

Hazard statements:

| | |
|------|--------------------------------------|
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |

Precautionary statements:

| | |
|----------------|--|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P264 | Wash hands thoroughly after handling. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P310 | Immediately call a POISON CENTER or doctor/physician. |
| P333+P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P362 | Take off contaminated clothing and wash before reuse. |
| P363 | Wash contaminated clothing before reuse. |
| P501 | Dispose of contents in accordance with local regulation. |

Other hazards which do not result in a classification

Other Hazards: No other hazards

3. Composition/information on ingredients

Substances

no data available

Mixtures

Hazardous components within the meaning of the "Australian Work Health and Safety (WHS)" regulation and related classification:

| Quantity | Name | Ident. Numb. | Classification |
|----------|---|--|--|
| 5-10 % | fatti acids, C18-unsaturated, dimers, reaction products with polyethylenepolymers | | Acute Tox. 4, H312; Eye Dam. 1, H318; Skin Sens. 1, H317; Skin Irrit. 2, H315 |
| 0.49-1 % | 3,6,9-triazaundecamethylenediamine tetraethylenepentamine | CAS:112-57-2 EC:203-986-2 Index:612-060-00-0 | Skin Corr. 1B; Skin Sens. 1; Aquatic Chronic 2; Acute Tox. 4; Acute Tox. 4, H314, H317, H411, H302, H312 |
| 0.49-1 % | 3,6-diazaoctanethylenediamin;triethylenetetramine | CAS:112-24-3 EC:203-950-6 Index:612-059-00-5 | Skin Corr. 1B; Skin Sens. 1; Aquatic Chronic 3; Acute Tox. 4, H314, H317, H412, H312 |

4. First-aid measures

Description of necessary first-aid measures

In case of skin contact:

- Immediately take off all contaminated clothing.
- OBTAIN IMMEDIATE MEDICAL ATTENTION.
- Remove contaminated clothing immediately and dispose of safely.
- After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

- After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
- Protect uninjured eye.

In case of Ingestion:

- Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

- Remove casualty to fresh air and keep warm and at rest.

Symptoms caused by exposure

- Eye irritation
- Eye damages
- Skin Irritation
- Erythema

Medical attention and special treatment

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

5. Fire-fighting measures

Suitable extinguishing media

- None in particular.
- Water.
- Carbon dioxide (CO2).

Specific hazards arising from the chemical

- Do not inhale explosion and combustion gases.
- Burning produces heavy smoke.
- Hazardous combustion products: no data available
- Explosive properties: no data available
- Oxidizing properties: no data available

Special protective equipment and precautions for fire-fighters

- Use suitable breathing apparatus.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Move undamaged containers from immediate hazard area if it can be done safely.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- Wear personal protection equipment.
- Remove persons to safety.
- See protective measures under point 7 and 8.

Environmental precautions

- Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
- Retain contaminated washing water and dispose it.
- In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
- Suitable material for taking up: absorbing material, organic, sand

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand
Wash with plenty of water.

7. Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.
Don't use empty container before they have been cleaned.
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.
Contaminated clothing should be changed before entering eating areas.
Do not eat or drink while working.
See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

8. Exposure controls/personal protection

Control parameters – exposure standards, biological monitoring

Predicted No Effect Concentration (PNEC) values

| Component | CAS-No. | PNEC LIMIT | Exposure Route | Exposure Frequency | Remark |
|---|----------|--------------|------------------------|--------------------|--------|
| 3,6,9-triazaundecamethylenediamine tetraethylenepentamine | 112-57-2 | 0,00068 mg/l | Fresh Water | | |
| | | 0,00068 mg/l | Marine water | | |
| | | 3,34 mg/kg | Freshwater sediments | | |
| | | 0,343 mg/kg | Marine water sediments | | |
| | | 0,683 mg/kg | Soil | | |

Derived No Effect Level. (DNEL)

| Component | CAS-No. | Worker Industry | Worker Professional | Consumer | Exposure Route | Exposure Frequency | Remark |
|---|----------|-----------------|---------------------|--------------------------|------------------------------|------------------------------|--------|
| 3,6,9-triazaundecamethylenediamine tetraethylenepentamine | 112-57-2 | | | 10 mg/kg | Human Dermal | Short Term, systemic effects | |
| | | | 0,74 mg/kg | | Human Dermal | Long Term, systemic effects | |
| | | | | 0,32 mg/kg | Human Dermal | Long Term, systemic effects | |
| | | | | 0,53 mg/kg | Human Oral | Long Term, systemic effects | |
| | | | | 0,00129 mg/l | Human Inhalation | Long Term, systemic effects | |
| 3,6-diazaoctanethylenediamin; triethylenetetramine | 112-24-3 | 5380 mg/m3 | | 0,00038 mg/l | Human Inhalation | Long Term, systemic effects | |
| | | | | 1600 mg/m3 | Human Inhalation | Short Term, systemic effects | |
| | | 0,57 mg/kg | | Human Dermal | Long Term, systemic effects | | |
| | | 1 mg/m3 | 0,29 mg/m3 | Human Inhalation | Long Term, systemic effects | | |
| | | 0,028 mg/m3 | 0,43 mg/cm2 | Human Dermal | Long Term, local effects | | |
| | | | 8 mg/kg | Human Dermal | Short Term, systemic effects | | |
| | | | 20 mg/kg | Human Oral | Short Term, systemic effects | | |
| | | | 1 mg/cm2 | Human Dermal | Short Term, local effects | | |
| | | 0,43 mg/cm2 | Human Oral | Long Term, local effects | | | |

Appropriate engineering controls

no data available

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

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

no data available

9. Physical and chemical properties

Color: light grey

Appearance: viscous fluid

Odour: like: Amines

Odour threshold: no data available

pH: 10.00

Melting point / freezing point: no data available

Initial boiling point and boiling range: no data available

Flash point: no data available

Evaporation rate: no data available

Flammability (Solid, Gas): no data available

Upper/lower flammability or explosive limits: no data available

Vapour pressure: no data available

Vapour density: no data available

Relative density: 12.00 g/cm³

Solubility in water: Miscible

Solubility in oil: no data available

Partition coefficient (n-octanol/water): no data available

Auto-ignition temperature: no data available

Decomposition temperature: no data available

Viscosity: no data available

Specific heat value: no data available

Saturated vapour concentration: no data available

Release of invisible flammable vapours and gases: no data available

Particle size: no data available

Size distribution: no data available

Shape and aspect ratio: no data available

Crystallinity: no data available

Dustiness: no data available

Surface area: no data available

Degree of aggregation or agglomeration, and dispersibility: no data available

Biodurability or biopersistence: no data available

Surface coating or chemistry: no data available

VOC (Volatile Organic Compound) : No Data Available

10. Stability and reactivity

Reactivity

Stable under normal conditions

Chemical stability

no data available

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

SECTION 11: Toxicological information

Information on toxicological effects

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

| | | |
|--|------------------------------|--|
| 3, 6- diazaoctanethylenediamin; triethylenetetramine | a) acute toxicity | LD50 Skin Rabbit 1465 mg/kg |
| | | LD50 Oral Rat 1716 mg/kg |
| 3,6, 9-triazaundecamethylenediamine tetraethylenepentamine | b) skin corrosion/irritation | Skin Sensitization Rabbit Positive |
| | a) acute toxicity | LD50 Oral Rat = 3990 mg/kg LD50 Skin Rabbit = 660 mg/kg |

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure
- i) STOT-repeated exposure
- j) aspiration hazard

12. Ecological information

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of components with eco-toxicological properties

| Quantity | Component | Ident. Numb. | Ecotox Infos |
|----------|---|--|--|
| 0.49-1 % | 3,6,9-triazaundecamethylenediamine tetraethylenepentamine | CAS: 112-57-2 - EINECS: 203-986-2 - 67-548-EC: 612-060-00-0 | a) Aquatic acute toxicity : LC50 Fish = 310 mg/L 96 a) Aquatic acute toxicity : EC50 Daphnia = 24,1 mg/L 48 a) Aquatic acute toxicity : EC50 Algae > 2,1 mg/L 72 |
| 0.49-1 % | 3, 6- diazaoctanethylenediamin; triethylenetetramine | CAS: 112-24-3 - EINECS: 203-950-6 - 67-548-EC: 612-059-00-5 | a) Aquatic acute toxicity : EC50 Daphnia 31,1 mg/L 48 a) Aquatic acute toxicity : LC50 Fish 330 mg/L 96 a) Aquatic acute toxicity : LC50 Fish Poecilia reticulata = 570 mg/L 96h IUCLID a) Aquatic acute toxicity : LC50 Fish Pimephales promelas = 495 mg/L 96h IUCLID a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 311 mg/L 48h IUCLID a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 25 mg/L 72h IUCLID a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 20 mg/L 72h IUCLID a) Aquatic acute toxicity : EC50 Algae Pseudokirchneriella subcapitata = 37 mg/L 96h EPA |

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

13. Disposal considerations

Disposal methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

14. Transport information

Not classified as dangerous in the meaning of transport regulations.

UN number

no data available

UN proper shipping name

no data available

Transport hazard class(es)

no data available

Packing group, if applicable

no data available

Environmental hazards

no data available

Special precautions for user

no data available

Additional Information

no data available

HazChem Code/Emergency Action code

no data available

15. Regulatory information

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

This Safety Data Sheet has been prepared according to the Australian Work Health and Safety (WHS) act and the Code of Practice on preparation of safety data sheets for Hazardous Chemicals.

AICS: all components are listed

16. Other information

| Code | Description |
|------|-------------|
|------|-------------|

| | |
|------|--|
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report
DMEL: Derived Minimal Effect Level
DNEL: Derived No Effect Level.
DPD: Dangerous Preparations Directive
DSD: Dangerous Substances Directive
EC50: Half Maximal Effective Concentration
ECHA: European Chemicals Agency
EINECS: European Inventory of Existing Commercial Chemical Substances.
ES: Exposure Scenario
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
IC50: half maximal inhibitory concentration
ICAO: International Civil Aviation Organization.
ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.