

Safety Data Sheet

Version 1.1

MaxiFlox® MPH60

Date Revised: 26:10:2020

1. Identification

MaxiFlox® MPH60

Manufacturer / Supplier:

Science Developments Pty Ltd (ABN 96 001 815 363)
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Emergency Information (24 h)

Within Australia: 1800 033 111 (Toll Free)

Outside Australia: +61 3 9663 2130

2. Hazard(s) Identification

Classification of the Chemical:

Work Health and Safety Regulation 2011, this product is classified as NOT Hazardous in accordance with SafeWork Australia criteria.

3. Composition and Information on Ingredients

Chemical nature:

Magnesium Hydroxide Liquid - Mg(OH)₂ >55%
Rheology Modifiers <5%
Minerals <2%
Water Balance

4. First Aid Measures

Contact with skin:

Take off contaminated clothing and shoes immediately.
Wash off immediately with plenty of water.
Seek medical attention in the case of skin irritation.
Wash contaminated clothing before re-use.

Contact with eyes:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Seek immediate medical attention.

Swallowing:

Do NOT induce vomiting
Seek medical attention

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4. First Aid Measures (cont...)

Inhalation:

Move to fresh air

Oxygen or artificial respiration if needed

Patient to lie down in the recovery position, cover and keep warm

Call a physician immediately

5. Fire Fighting Measures

Recommended extinguishers:

This product will not burn and will not fuel a fire in progress

Use extinguishing measures that are appropriate to local circumstances and surrounding environment.

Water

Water spray or fine mist spray

Extinguishers not to be used:

None

Protective equipment:

Firefighters, and others exposed, use protection for the respiratory tract.

6. Accidental Release Measures

Measures for personal safety:

Advice for non-emergency personnel

Evacuate personnel to safe areas

Advice for emergency responders

Use personal protective equipment

Prevent further leakage or spillage

Keep away from incompatible products

Environmental measures:

Prevent product from entering drains and waterways.

Surface water can be flushed into sanitary sewer system.

In case of accidental release or spill, immediately notify the appropriate authorities if Regulated by Federal, State/Provincial and local laws and regulations.

Cleaning methods:

Dam up

Recover by pumping or suitable absorbent material

Do not let product enter drains.

Keep in suitable, closed containers for disposal

Keep in properly labelled containers

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7. Handling and Storage

Handling precautions:

This product is not combustible and will not burn.
The product may induce a slight irritation to the skin or eyes with prolonged use.
Employ standard industrial hygiene practices when handling this product.

Hygiene Measures:

Take off contaminated clothing and shoes immediately.
Wash contaminated clothing before re-use.
When using do not eat, drink or smoke.
Wash hands before breaks and at the end of workday.
Handle in accordance with good industrial hygiene and safety practice.

Storage conditions:

Store in original container.
Keep tightly closed in a dry and cool place.
Keep in properly labelled containers
Keep in a bunded area.
Keep away from incompatible products

Incompatible Materials:

Brass
Acids
Strong oxidisers

8. Exposure Controls and Personal Protection

National Exposure Standards:

The time weighted average concentration (TWA) for this product is: None specified.
Consider 5 g/m³, 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 5 g/m³, 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.

Control Parameters:

The use of local exhaust ventilation is recommended to control process emissions near the source.
Provide mechanical ventilation of confined spaces.
Apply technical measures to comply with the occupational exposure limits.

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8. Exposure Controls and Personal Protection (cont...)

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.

Protection for hands:

Chemical resistant gloves

Eye protection:

Use protective goggles.

Protection for skin:

Always wear long sleeves, long trousers, or coveralls, and enclosed footwear or safety boots when handling this product.

Hygiene Measures:

Take off contaminated clothing and shoes immediately.

Wash contaminated clothing before re-use.

When using do not eat, drink or smoke.

Wash hands before breaks and at the end of workday.

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Appearance:	Slurry Viscous Liquid Colour: White / Grey Milky
Odour:	Slight alkaline or chalky smell
Odour Threshold:	No data available
pH, 1% aq. Solution:	9.5 – 11.0
Freezing point:	0 °C
Boiling Point/Boiling range:	ca. 101 °C
Flashpoint:	None
Evaporation rate:	No data available
Flammability (Liquids):	Not applicable
Flammability / Explosive Limit:	Not explosive
Auto-ignition temperature:	No data available
Vapour pressure, 20°C:	No data available
Vapour density, 20°C:	No data available
Density, g/ml:	1.50 – 1.56
Solubility:	Disperses in water
Viscosity, cP at 23°C:	300 - 1000
Explosive properties:	Not Explosive
Oxidizing properties:	Non-Oxidising
Corrosion of Metals	Corrosive to Brass

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10. Stability and Reactivity

Reactivity:

Reactive to acids

Chemical Stability:

Stable under recommended storage conditions.

Conditions to avoid:

Strong acids, Maleic Anhydride.

Substances to avoid:

Acids.

Hazardous decomposition products:

Oxides of Calcium, Magnesium and Silicon

11. Toxicological Information

No adverse health effect is expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that arise if the product is mishandled and over exposure occurs are:

Ingestion:

This material may cause discomfort on swallowing. Ingestion of large amounts may result in gastric disturbances, irritation to the oesophagus, throat and stomach.

Eye Contact:

Eye contact with this product will cause redness, may induce some swelling and blurred vision.

Skin Contact:

Contact with skin will result in mild irritations. Some defatting, itching and redness is likely in these situations.

Inhalation:

This material has low vapour concentrations at ambient temperatures. Inhalation of mists will result in nausea and headaches and can result in lung damage.

Chronic Toxicology:

Persons with pre-existing skin or respiratory conditions may be sensitive to this product. If PPE precautions are observed, there is little likelihood of overt health effects.

Toxicology Information:

Oral LD50: > 2000 mg/kg (rat)

Dermal LD50: No data available

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12. Ecological Information

Avoid contaminating waterways.

Acute toxicity to fish

Elements of this product are expected to persist.

This product is mobile on dilution with water and, if released to the environment, likely to contaminate.

13. Disposal Considerations

Refer to Waste Management Authority. Dispose of contents and container in accordance with local, regional, national and international regulations.

14. Transport Information

This product is not regulated for transport by road and rail

15. Regulatory Information

Based on available information, not classified as hazardous according to Safe Work Australia; NON-HAZARDOUS SUBSTANCE.

Poison Schedule (SUSMP): Non-allocated.

All the constituents of this material are listed on the Australian Inventory of Chemicals Substances (AICS).

16. Other Information

This SDS summarises to our best knowledge at the date of this issue the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Science Developments Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact Science Developments Pty Ltd as per the contact details on page 1.

All the constituents of this material are listed on the Australian Inventory of Chemicals Substances (AICS).