

PHOS-CHEK® MVP-Fx Solution

Safety Data Sheet

according to the Model Work Health and Safety Regulations

Date of issue: 01/03/2019

Revision date: 01/12/2022

Version: 1.7

SECTION 1: Identification : Product identifier and chemical identity

1.1. Product identifier

Product form : Mixture
 Product name : PHOS-CHEK® MVP-Fx Solution

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Fire retardant used for wildland fire control

1.4. Supplier's details

Manufacturer

Perimeter Solutions
 10667 Jersey Blvd.
 Rancho Cucamonga CA, 9173
 Tel. 1-800-682-3626

Australian Supplier

Perimeter Solutions
 46 Hudson Crescent,
 Lavington, NSW 2641, Australia
 Tel. +61 2 6040 6900
 24hr Tel: +61 2 9430 6396

1.5. Emergency phone number

Emergency number : CHEMTREC 800-424-9300
 CANUTEC 613-996-6666
 1-800-862-115 (Australia)

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical

Classification according to the model Work Health and Safety Regulations (WHS Regulations)

Not classified.

2.2. Label elements

No labeling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

| Name | CAS-No. | % |
|------------------------|--------------|--------|
| Water | 7732-18-5 | > 85 |
| Monoammonium phosphate | 7722-76-1 | 1 - 10 |
| Diammonium phosphate | 7783-28-0 | 1 - 5 |
| Performance Additives | Trade Secret | < 1 |

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : If skin irritation occurs: Wash skin with plenty of water. Obtain medical attention if irritation persists.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

4.2. Symptoms caused by exposure

Symptoms/effects after inhalation : May cause irritation to the respiratory tract.

Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking.

Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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4.3. Indication of any immediate medical attention and special treatment needed

Other medical advice or treatment : Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon. Ammonia and phosphoric acid may be formed when product is heated above 90 °C (194 °F).

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Do not breathe dust. Avoid contact with skin, eyes and clothing.

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

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Contain spill, then place in a suitable container. Minimize dust generation. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Avoid dust formation. Provide ventilation.

SECTION 7: Handling and storage, including how the chemical may be safely used

7.1. Precautions for safe handling

Precautions for safe handling : Avoid breathing dust, mist. Avoid generating dust. Avoid contact with skin, eyes and clothing. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Use only outdoors or in a well-ventilated area.

Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in well ventilated area. Store locked up.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters - exposure standards

No additional information available

8.2. Monitoring

No additional information available

8.3. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

8.4. Personal protective equipment

Hand protection : Wear suitable gloves

Eye protection : Safety glasses or goggles are recommended when using product.

Skin and body protection : Wear suitable protective clothing

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| Respiratory protection | : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. |
| Environmental exposure controls | : Not applicable when used as intended. |
| Other information | : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. |

SECTION 9: Physical and chemical properties

| | |
|--------------------------------------------|----------------------|
| Physical state | : Liquid |
| Appearance | : Liquid |
| Colour | : Pink |
| Odour | : None |
| Odour threshold | : No data available |
| pH | : 5.0 - 6.5 |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point / Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Flammability (solid, gas) | : Not flammable |
| Vapour pressure | : No data available |
| Relative density | : No data available |
| Density | : 1.043 – 1.055 g/ml |
| Solubility | : No data available |
| Partition coefficient n-octanol/water | : No data available |
| Viscosity, dynamic | : 401 – 800 cP |
| Explosive properties | : No data available |
| Explosive limits | : No data available |
| Minimum ignition energy | : No data available |
| Fat solubility | : No data available |
| Refractive Index | : 8.00 – 9.75 |

SECTION 10: Stability and reactivity

| | |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity | : No dangerous reactions known under normal conditions of use. |
| Chemical stability | : Stable under normal conditions. |
| Possibility of hazardous reactions | : No dangerous reactions known under normal conditions of use. |
| Conditions to avoid | : Heat. |
| Incompatible materials | : None known. |
| Hazardous decomposition products | : May include, and are not limited to: oxides of carbon. Ammonia and phosphoric acid may be formed when product is heated above 90 °C (194 °F). |

SECTION 11: Toxicological information

| | |
|-----------------------------|-------------------|
| Acute toxicity (oral) | : Not classified. |
| Acute toxicity (dermal) | : Not classified. |
| Acute toxicity (inhalation) | : Not classified. |

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|------------------------------------|--------------|
| LD50 oral rat | > 5050 mg/kg |
| LD50 dermal rabbit | > 2020 mg/kg |
| Monoammonium phosphate (7722-76-1) | |
| LD50 oral rat | 5750 mg/kg |
| LD50 dermal rabbit | > 7940 mg/kg |
| Diammonium phosphate (7783-28-0) | |
| LD50 oral rat | > 2000 mg/kg |
| LD50 dermal rabbit | > 5000 mg/kg |
| Water (7732-18-5) | |
| LD50 oral rat | > 90 ml/kg |

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| | |
|-----------------------------------|------------------------------------------------------------------|
| Skin corrosion/irritation | : Not classified. Slightly irritating pH: 5 - 6 |
| Serious eye damage/irritation | : Not classified. Non irritating pH: 5 - 6 |
| Respiratory or skin sensitisation | : Not classified. |
| Germ cell mutagenicity | : Not classified. |
| Carcinogenicity | : Not classified. |
| Reproductive toxicity | : Not classified. |
| STOT-single exposure | : Not classified. |
| STOT-repeated exposure | : Not classified. |
| Aspiration hazard | : Not classified. |
| Other information | : Likely routes of exposure: ingestion, inhalation, skin and eye |

SECTION 12: Ecological information

According to the National Code of Practice for the Preparation of Material Safety Data Sheets, Environmental classification information is not mandatory. Information relevant for GHS classification is available on request

12.1. Ecotoxicity

| | |
|--------------------------|-------------------------------------------------------------------|
| Ecology - general | : May cause long-term adverse effects in the aquatic environment. |
| Acute aquatic toxicity | : Not classified. |
| Chronic aquatic toxicity | : Not classified. |
| Other information | : No other effects known. |

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| | |
|------|------------------|
| LC50 | Not established. |
|------|------------------|

Monoammonium phosphate (7722-76-1)

| | |
|------------|-------------------------------|
| BCF fish 1 | (no bioaccumulation expected) |
|------------|-------------------------------|

Diammonium phosphate (7783-28-0)

| | |
|-------------|--------------------------------------------------------------------------------------|
| LC50 fish 1 | 26.5 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss) |
| LC50 fish 2 | 24.8 - 29.4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through]) |
| BCF fish 1 | (no bioaccumulation expected) |

12.2. Persistence and degradability

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| | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

12.3. Bioaccumulative potential

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| | |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

Monoammonium phosphate (7722-76-1)

| | |
|------------|-----------------------------------|
| BCF fish 1 | See section 12.1 on ecotoxicology |
|------------|-----------------------------------|

Diammonium phosphate (7783-28-0)

| | |
|------------|-----------------------------------|
| BCF fish 1 | See section 12.1 on ecotoxicology |
|------------|-----------------------------------|

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

| | |
|-----------------------|---------------------------------------|
| Ozone | : Not classified. |
| Other adverse effects | : No additional information available |

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| | |
|------------------------------|-------|
| Fluorinated greenhouse gases | False |
|------------------------------|-------|

Monoammonium phosphate (7722-76-1)

| | |
|------------------------------|-------|
| Fluorinated greenhouse gases | False |
|------------------------------|-------|

Diammonium phosphate (7783-28-0)

| | |
|------------------------------|-------|
| Fluorinated greenhouse gases | False |
|------------------------------|-------|

Water (7732-18-5)

| | |
|------------------------------|-------|
| Fluorinated greenhouse gases | False |
|------------------------------|-------|

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SECTION 13: Disposal considerations

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Additional information : Empty containers may contain residues which are hazardous.

SECTION 14: Transport information

14.1. UN number

Not regulated for transport

14.2. Proper Shipping Name - Addition

Not applicable

14.3. Transport hazard class(es)

ADG

Transport hazard class(es) (ADG) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (ADG) : Not applicable

14.5. Environmental hazards

Marine pollutant : No

14.6. Special precautions for user

Specific storage requirement : No data available

Shock sensitivity : No data available

14.7. Additional information

Other information : No supplementary information available.

Special transport precautions : Do not handle until all safety precautions have been read and understood.

14.8. Hazchem or Emergency Action Code

Hazchemcode : Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No additional information available

15.2. International agreements

No additional information available

SECTION 16: Any other relevant information

Revision date : 01/12/2022
Expiry date : 01/12/2027
Prepared by : Nexreg Compliance Inc.
www.Nexreg.com



Other information : None.

Classification:

| |
|-----------------|
| Not classified. |
|-----------------|

SDS Australia - Nexreg

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