

PHOS-CHEK® 259-Fx

Safety Data Sheet

according to the Model Work Health and Safety Regulations (WHS Regulations).

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Version: 1.6

SECTION 1: Identification : Product identifier and chemical identity

1.1. Product identifier

Product form : Mixture
Product name : PHOS-CHEK® 259-Fx

1.2. Other means of identification

No additional information available

1.3. Relevant identified uses of the substances or mixture and uses advised against

Recommended use : Fire retardant used for wildland fire control

1.4. Details of the supplier or manufacturer or distributor of the safety data sheet

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

The components of this mixture are not classified as hazardous under the regulations and guidance relevant to this document.

Name	CAS-No.	%
Non-Hazardous Ingredients		100

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. Call a POISON CENTRE (Australia Telephone 13 11 26) or a doctor 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.

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).

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SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Not combustible. 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 : Do not attempt to take action without suitable protective equipment. 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 : Small release: Introduce good ventilation. Wear suitable gloves, dust mask and eye protection. Sweep up or vacuum up but avoid generating airborne dust. Place the recovered material in a suitable waste disposal container. Seal the container and label it to ensure proper disposal. Wash spill area with plenty of water. Take steps to prevent rinse water from entering drains or waterways.

Large release: Isolate spill area and restrict entry of unprotected personnel. Wearing full personal protection equipment use a dry collection technique but avoid generating airborne dust. Place collected material into suitable sealable containers and label them to ensure proper disposal. Hose down residue with plenty of water. Take steps to prevent rinse water from entering drains or waterways.

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

An Australian exposure standard for this mixture has not been set by SWA, however, the limit for "nuisance dusts" is indicated and an ACGIH STANDARD for "particulates not otherwise classified" TLV exists and is shown below:

Nuisance Dust / Particles not Otherwise Classified		
Australia Exposure Standards (Nuisance dust)	TWA (8 hour)	10 mg/m ³ - Inhalable
ACGIH (Particles not Otherwise Classified)	TWA (8 hour)	10 mg/m ³ - Inhalable
ACGIH (Particles not Otherwise Classified)	TWA (8 hour)	3 mg/m ³ - Respirable

8.2. Monitoring

- No additional information available

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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- Protective nitrile rubber gloves

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

Skin and body protection : Wear suitable protective clothing with long sleeves and legs.

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.

In case of insufficient ventilation, for routine work involving this material wear a class P1 dust mask. In case of a large spill or when working in enclosed spaces where dust is generated and airborne dust concentrations are unknown use a AS/NZ 1716 compliant full-face cartridge type respirator fitted with a class P3 particle filter (for selection see AS/NZ 1715).

If personal protection equipment is the only possible means of respiratory protection in the normal, ordinary manufacturing environment or when working in confined spaces, use a full face air supplied 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 : Solid- Powder

Appearance : Powder

Colour : Pink

Odour : Ammoniacal

Odour threshold : No data available

pH : 5 – 6.5 (at 1.01 lbs/U.S. Gal of water)

Relative evaporation rate (butylacetate=1) : No data available

Melting point / Freezing point : Freezing point: Not applicable

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 : Relative density : Not applicable
Density: 1.057 g/cm³ (at 0.121 kg/L; 1.014 lbs/U.S. Gallon of water)

Solubility : No data available

Partition coefficient n-octanol/water : No data available

Viscosity, dynamic : Viscosity, dynamic : 101 - 400 cP

Explosive properties : No data available

Explosive limits : No data available

Minimum ignition energy : No data available

Fat solubility : No data available

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).

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SECTION 11: Toxicological information

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

PHOS-CHEK® 259-Fx	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2020 mg/kg

Skin corrosion/irritation	: Skin Irritation - rabbit: 0.0/8.0 (24-hr. exp.); non-irritating
Serious eye damage/irritation	: Eye Irritation - rabbit: Concentrate: minimally irritating; Use dilution: non-irritating.
Respiratory or skin sensitisation	: Not classified. The dry powder may cause foreign body irritation in some individuals. Prolonged contact with the dry powder may cause drying or chapping of the skin. Excessive inhalation of dust may be annoying and can mechanically impede respiration.
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.

PHOS-CHEK® 259-Fx	
LC50 fish 1	860 mg/l

12.2. Persistence and degradability

PHOS-CHEK® 259-Fx	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

PHOS-CHEK® 259-Fx	
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

PHOS-CHEK® 259-Fx	
Fluorinated greenhouse gases	False

Monoammonium phosphate (7722-76-1)	
Fluorinated greenhouse gases	False

Diammonium phosphate (7783-28-0)	
Fluorinated greenhouse gases	False

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SECTION 13: Disposal considerations

Product/Packaging disposal recommendations : This product is a prescribed waste and may only be disposed of in accordance with applicable State and local regulations. These regulations vary from jurisdiction to jurisdiction and hence the user is counselled to seek advice from the local authority before considering disposal. The disposal information given below is a general guide and does not replace the requirement of the local regulations.

DISPOSAL: If possible recycle, otherwise dispose strictly in accordance with local industrial waste or environmental protection regulations. If permitted the dry material may be considered for landfill. However do not allow the concentrate to contaminate soil, sewerage systems, surface or ground water. Local regulations must be observed when discharging dilute solutions into industrial waste systems.

When large amounts of this product need to be disposed of the services of a registered, professional waste disposal organisation is highly recommended.

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 Dangerous Goods

IMDG

Transport hazard class(es) (IMDG) : Not Dangerous Goods

IATA

Transport hazard class(es) (IATA) : Not Dangerous Goods

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 : Keep containers closed and stored in a dry, moisture free environment.

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

Global Chemical Inventory Status:

AICS (Australia Inventory of Chemical Substances) : All components are listed.

TSCA (USA) : All components are listed or exempted.

SUSMP : Not scheduled.

15.2. International agreements

NZIoC (New Zealand Inventory of Chemical Substances) : All components are listed or exempted.

SECTION 16: Any other relevant information

Revision date : 30/11/2022

Expiry date : 30/11/2027

Prepared by : Nexreg Compliance Inc.
www.Nexreg.com



Other information : None.

Classification:

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Not classified.

SDS Australia - Nexreg

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