

SECTION 1: Identification : Product identifier and chemical identity

1.1. Product identifier

Product name : PHOS-CHEK® 259-F
Product code : AST10030

1.2. Recommended uses and restrictions

Recommended use : Fire retardant

1.3. Supplier information

PC Australasia Pty Ltd - Trading as Phos-Chek® Australia

46 Hudson Crescent, Lavington, NSW 2641, Australia

T 02 6040 6900

Emergency number : 0417 525 970

SECTION 2: Hazards identification

2.1. Classification of the hazardous chemical

Classification (GHS-AU)

Not classified

2.2. Label elements

No labelling 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.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.
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 CENTRE (Australia Telephone 13 11 26) or a doctor if you feel unwell.

4.2. Symptoms caused by exposure

No additional information available

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

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Not combustible. For surrounding area use water spray, dry powder or foam.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Special protective equipment and precautions 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 : If indoors, ventilate spillage area.

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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 material for containment and cleaning up

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 : Practice sound industrial hygiene. Ensure good ventilation of the work station. Wear personal protective equipment. Avoid breathing dust, mist or spray.

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. Keep container tightly closed.

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

8.3. Appropriate engineering controls

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

8.4. Personal protective equipment

Personal protective equipment (PPE) listed below for general guidance only. Appropriate PPE must be determined for each specific work environment. Final choice will depend on the quantity used, equipment used, substance processing and airborne concentrations. Suitability of PPE for this substance should be confirmed with the respective PPE supplier.

Hand protection : Protective nitrile rubber gloves

Eye protection : Chemical safety glasses

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

Respiratory protection : 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 : Avoid accidental release to the environment.

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SECTION 9: Physical and chemical properties

Physical state	: Solid
Appearance	: Powder
Colour	: Reddish
Odour	: None
Odour threshold	: No data available
pH	: 7.5 +/- 0.5 (at 1.14 lbs/U.S. Gal of water)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point / Freezing point	: Freezing point : Not applicable
Boiling point	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative density	: No data available
Density	: Density : 1.057 – 1.085 g/cm ³ (at 0.137 kg/L; 1.14 lbs/U.S. Gallon of water)
Solubility	: Insoluble.
Partition coefficient n-octanol/water	: No data available
Viscosity	: Viscosity, dynamic : 75 - 250 cP (at 0.137 kg/L; 1.14 lbs/U.S. Gallon of water)
Explosive properties	: Not applicable
Explosive limits	: Not applicable
Minimum ignition energy	: Not applicable
Fat solubility	: No data available

SECTION 10: Stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: None under recommended storage and handling conditions (see section 7).
Incompatible materials	: None known.
Hazardous decomposition products	: Ammonia. Phosphoric acid.

SECTION 11: Toxicological information

Mammalian toxicity testing was performed on the concentrate and the use dilution solution. Results are summarized below:

Acute toxicity (oral) – Concentrate and Solution	: Oral - rat LD50: >5,050 mg/kg; Practically non-toxic.
Acute toxicity (dermal) - Concentrate and Solution	: Dermal - rabbit LD50: >2,020 mg/kg; Practically non-toxic.
Acute toxicity (inhalation) - Concentrate and Solution	: Not classified.
Skin corrosion/irritation - Concentrate	: Skin Irritation – Slightly Irritating
Serious eye damage/irritation – Concentrate	: Eye Irritation - rabbit: (32/110.0) moderately irritating.
Serious eye damage/irritation - Soluton	: Eye Irritation - rabbit: (1.7/110.0) practically 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.

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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

ICL Performance Products LP has not conducted environmental toxicity studies on this product. However, tests conducted with a similar fire retardant formulation, are summarized below.

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity (OPPTS 850.1075)	: Coldwater fish: 96-hr LC50 Rainbow trout: 860 mg/L, Practically non-toxic
Chronic aquatic toxicity	: Not classified.
Oral LD50 Bobwhite quail, >2,510 mg/kg	: Practically Nontoxic
Oral LD50 Mallard duck, >2,510 mg/kg	: Practically Nontoxic
Oral LD50 Mallard duck, >2,510 mg/kg	: Practically Nontoxic

Data from the scientific literature indicate the following:

96-hr LC50 Bluegill sunfish, 350 mg/l	: Practically Nontoxic
96-hr LC50 Fathead minnow, 300 mg/l	: Practically Nontoxic
96-hr LC50 Largemouth bass, 450 mg/l	: Practically Nontoxic
96-hr LC50 Scud, 40 mg/l	: Slightly Toxic
96-hr LC50 Coho Salmon yolk-sac fry, 145 mg/l	: Practically Nontoxic
96-hr LC50 Coho Salmon fingerling, 245 mg/l	: Practically Nontoxic
96-hr LC50 Rainbow trout yolk-sac fry, 115 mg/l	: Practically Nontoxic
96-hr LC50 Rainbow trout fingerling, 160 mg/l	: Practically Nontoxic

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

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
GWPmix comment	No known effects from this product.

SECTION 13: Disposal considerations

Waste treatment methods	: 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.
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SECTION 14: Transport information

14.1. UN number

Not regulated for transport

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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.

14.8. Hazchem or Emergency Action Code

Hazchem code : 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

No additional information available

SECTION 16: Any other relevant information

Revision date : 26/01/2018

Phos-Chek® is a registered trademark of ICL Performance Products LP.

This safety data sheet (SDS) summarises as of the date of issue our best knowledge of the health and safety hazard information of the product, and in particular, how to safely handle and use the product in the workplace. Since PC Australasia Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this SDS in the context of how the user intends to handle and use then product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company. Our responsibility for the products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

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