

HAZARDOUS ACCORDING TO THE CRITERIA OF WORKSAFE AUSTRALIA

COMPANY DETAILS

Company: PC Australasia Pty Ltd

Address: 46 Hudson Crescent
Lavington NSW 2641

Telephone Number: 02 6040 6900

Emergency Telephone Number: FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE,
EXPLOSION OR ACCIDENT CALL 0417 525 970

IDENTIFICATION

Product name: PHOS-CHEK® FIRE RETARDANT GRADES G-75F AND G-75W

MSDS NO.: A062

Date: 23 February 2010

UN Number: None allocated

Dangerous Goods Class and Subsidiary Risk: None allocated

Hazchem Code: None allocated

Poisons Schedule Number: None allocated

Use: Phos-Chek retardants are used for wildland fire control in forest, bush, or grass areas. They are dry powders which are mixed with water prior to use.

Physical Description/Properties

Appearance: Phos-Chek G-75F is a reddish powder.
Phos-Chek G-75W is an off-white powder.
Neither have an odour.

Boiling Point/Melting Point: Not relevant

Vapour Pressure: Not relevant

Specific Gravity: Not relevant

Flashpoint: Not relevant

Flammability Limits: Not relevant

Solubility in water: Intended for use at 134 grams/1 litre (1.2 pounds/US gallon) in water.

Other Properties

Corrosiveness: Meets U.S. Department of Agriculture Forest Service specification 5100-304a for Long Term Retardant. Approved for Ground application use on forest and bush fires.

Bulk Density: 960kg/M3

Ingredients

<u>Chemical name:</u>	<u>CAS Number:</u>	<u>Proportion</u>
Diammonium Sulfate	7783-20-2	> 65
Monoammonium Phosphate	7722-76-1	> 20
Diammonium Phosphate	7783-28-0	< 5
Guar Gum	9000-30-0	< 5
Performance Additives	Trade Secret	< 5

All components appear on the Australian Inventory of Chemical Substances (AICS) as managed by NICNAS.

HEALTH HAZARD INFORMATION

Health Effects

Acute:

Swallowed: Not toxic based on toxicity studies. No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed.

Eye: No more than slightly irritating based on toxicity studies. Dry powder may cause foreign body irritation in some individuals.

Skin: No more than slightly toxic based on toxicity studies. Non irritating based on toxicity studies. The dry powder may cause drying or chapping of the skin.

Inhaled: May cause nasal and respiratory tract irritation based on toxicity information of components. May cause an allergic respiratory tract reaction based on toxicity information of guar gum.

Chronic: There have been no reports in the literature of health effects in workers arising from long term exposure to this product and no comprehensive human studies have been conducted. No animal studies have been conducted for long term effects.

First Aid

Swallowed: Immediate first aid is not likely to be required. A physician or Poison Control Center can be contacted for advice. Wash heavily contaminated clothing before reuse.

Eye: Immediate first aid is not likely to be required. However, this material can be removed with water.

Skin: Immediate first aid is not likely to be required. However, this material can be removed with water.

Inhaled: Remove individual to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. Remove material from eyes, skin and clothing.

Advice to Doctor: Treat symptomatically

PRECAUTIONS FOR USE

Exposure Standards:

AIRBORNE EXPOSURE LIMITS:

ACGIH have established limits for nuisance dust, particulates not otherwise classified (PNOC) which are applicable to this product.

10 mg/m³ (inhalable) 8-hr TWA

3 mg/m³ (respirable) 8-hr TWA

Engineering Controls:

Provide natural or mechanical ventilation to minimize exposure. If practical, use local mechanical exhaust ventilation at sources of air contamination.

Personal Protection:

EYE PROTECTION: This product does not cause significant eye irritation or eye toxicity requiring special protection. Use good industrial practice to avoid eye contact.

SKIN PROTECTION: Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

RESPIRATORY PROTECTION: Avoid breathing dust. Use respirator when airborne exposure is excessive. Consult respirator manufacturer to determine appropriate type equipment for given application.

Attention! Repeated or prolonged inhalation may cause allergic respiratory reaction in some people.

Flammability: No precautions indicated.

SAFE HANDLING INFORMATION

Storage and Transport:

Avoid breathing dust.

Keep container closed.

Use with adequate ventilation.

Emptied container retains dust and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed. The reuse of this material's container for non-industrial purposes is prohibited and any reuse must be in consideration of the data provided in the MSDS.

Spills and Disposal:

In case of spill, sweep, scoop or vacuum and remove. Flush residual spill area with water.

Dispose by landfill or reuse in accordance with local and state regulations. Consult your attorney or appropriate regulatory officials for information on such disposal.

Fire/Explosion Hazard:

Not relevant. This product is a fire retardant chemical.

OTHER INFORMATION:

Toxicology Data:

Data from Astaris studies this product and on a use solution are summarized below.

PHOS-CHEK G-75F dry-powder:

Oral - Rat LD50 4200 mg/kg
Skin - Rabbit LD50 >2000 mg/kg
Eye Irritation - Slightly irritating (Rabbit 24-hr 9.3/110)
Skin Irritation - Non-irritating (Rabbit 4-hr 0.0/8.0)

PHOS-CHEK G-75F solution @ recommended mix ratio:

Oral - Rat LD50 >5000 mg/kg
Skin - Rabbit LD50 >2000 mg/kg
Eye Irritation - Non-irritating (Rabbit 24-hr 3.3/110)
Skin Irritation - Non-irritating (Rabbit 4-hr 0.2/8.0)

PHOS-CHEK G-75W dry-powder:

Oral - Rat LD50 >505 mg/kg
Skin - Rabbit LD50 >2020 mg/kg
Eye Irritation - Slightly irritating (Rabbit 24-hr 3.7/110)
Skin Irritation - Non-irritating (Rabbit 4-hr 0.1/8.0)

PHOS-CHEK G-75W solution @ recommended mix ratio:

Oral - Rat LD50 >5050 mg/kg
Skin - Rabbit LD50 >2020 mg/kg
Eye Irritation - Non-irritating (Rabbit 24-hr 0.0/110)
Skin Irritation - Non-irritating (Rabbit 4-hr 0.1/8.0)

This product contains guar gum, which was reported to be irritating to eyes and respiratory tract. Respiratory allergenic responses were reported following repeated exposures in a study of a small group of exposed workers.

Ecological Data:

Astaris has not conducted environmental toxicity or biodegradation studies with these products. However, data for a similar material which is considered representative of this product are presented below:

The following data have been classified using the criteria adopted by the European Economic Community (EEC) for aquatic organism toxicity.

24-hr LC50 Daphnia Magna: > 1,000 mg/l Practically Nontoxic
48-hr LC50 Rainbow Trout: > 1,000 mg/l Practically Nontoxic
48-hr LC50 Fathead Minnow: > 1,000 mg/l Practically Nontoxic

CONTACT POINT:

For additional non-emergency information, call Customer Service on Tel: **02 6040 6900**