

DATE OF ISSUE: January 2012

REPLACES: None



Material Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

SUPPLIER Company: PC Australasia Pty Ltd
 Address: 46 Hudson Crescent, Lavington, NSW 2641, Australia
 Telephone: 02 6040 6900
 Emergency Telephone No: 0417 525 970

PRODUCT **Product Name:** Phos-Chek WD881
Other Names: None
Manufacturer's Code: None

USE Fire retarding agent. Proportioned in a water stream and directly hosed onto the fire.

2. HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION **NOHSC Classification:** Hazardous Substance
ADG Classification: Non Dangerous Goods
SUSMP Classification: Not Scheduled

RISK PHRASES R38 Irritating to skin.
 R41 Risk of serious eye damage.

SAFETY PHRASES S23 Do not breathe gas, vapours, aerosols or mist.
 S24/25 Avoid contact with skin or eyes.
 S26 In case of contact with eyes rise immediately with plenty of water and seek medical advice.
 S28 After contact with skin, wash immediately with plenty of water.
 S36/37/39 Wear suitable protective clothing, gloves and eyes/face protection.
 S61 Avoid release into the environment. Refer to Safety data sheet.

3. COMPOSITION/INFORMATION ON INGREDIENTS

MIXTURE	CHEMICAL ENTITY	CAS No	PROPORTION
	Sulfonic acids, C14-16-alkane, sodium salts	68439-57-6	10 - 30%
	Hexylene glycol	107-41-5	10 - 30%
	Alcohols, C12-15	68855-56-1	< 10%
	Other ingredients determined not to be hazardous	Not applicable	to 100

4. FIRST AID MEASURES

FIRST AID **Swallowed:** Have casualty rinse mouth with water. Give plenty of water to drink (500 mL) but never give anything by mouth if casualty is rapidly losing consciousness, or is unconscious or convulsing. Do NOT induce vomiting. Seek medical attention.

Eyes: Immediately flush the contaminated eye(s) with gently flowing lukewarm water for at least 15 minutes, while holding the eyelid(s) open. Seek medical attention immediately.

Skin: Avoid direct contact. Quickly take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately flush with gently flowing lukewarm water. Seek medical attention if irritation develops or persists. Wash affected clothing before reuse.

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Inhaled Take precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment). Move casualty to fresh air. Keep at rest in a position comfortable for breathing. If breathing is difficult, administer oxygen. If the casualty is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention if respiratory irritation or distress continues.

First Aid Facilities: Have eyewashes, safety showers and normal wash room facilities available in the vicinity where exposure to this mixture may occur.

ADVICE TO
DOCTOR

No specific antidote - treat symptomatically.

5. FIRE FIGHTING MEASURES

EXTINGUISHING
MEDIA

If this mixture is vigorously mixed with plenty of water by water jet it becomes a fire extinguishing foam. Use dry chemical, carbon dioxide, foam or water jet to extinguish fire.

HAZARDOUS
COMBUSTION
PRODUCTS

Oxides of sulphur and carbon.

PRECAUTIONS FOR
FIRE FIGHTERS

Drums may rupture in a fire; therefore keep containers cool with water spray. Wear full chemical protective equipment including a self-contained breathing apparatus with full-face mask. If using foam use larger quantities than normal because this product will partially destroy the foam. Clean equipment thoroughly after use. Prevent fire fighting medium from entering drains or waterways.

HAZCHEM CODE

Not regulated

6. ACCIDENTAL RELEASE MEASURES

EMERGENCY
PROCEDURES

Wearing full PPE (see Section 8), ventilate hazard area, remove all ignition sources and restrict access. Shut off leak if safe to do so. Dyke spill to minimise damage to the environment. Inform emergency services if substance has spilled into sewer, drains or waterways.

CLEAN UP
PROCEDURE

Small Spills: Introduce good ventilation and remove ignition sources. Wear suitable gloves and eye protection and soak up material with dry sand or Vermiculite (do not use a combustible absorbent such as sawdust). Place the recovered material in a suitable waste disposal container. Seal the container and label it in accordance with the NOHSC/ASCC labelling code. Wash spill area with plenty of water. Take steps to prevent rinse water from entering drains or waterways.

Large spills: Isolate spill area and restrict entry. Wearing full personal protection equipment, contain spill with dry sand, earth, or Vermiculite (do not use a combustible absorbent such as sawdust). Prevent run-off into drains or waterways. Bail or pump any free liquid into suitable sealable containers. Collect absorbed material and place it also into suitable sealable containers. Seal all containers and label them in accordance with the NOHSC/ASCC labelling code to ensure proper disposal. Hose down residue with plenty of water. Take steps to prevent rinse water from entering drains or waterways.

7. HANDLING AND STORAGE

PRECAUTION FOR
SAFE HANDLING

Practice sound industrial hygiene. Avoid generating vapours, aerosols or mists. Avoid breathing vapours, mists or aerosols. Avoid contact with skin or eyes. Wash hands before work breaks and at the end of a shift. Take steps to prevent static build-up or discharge. Do NOT smoke while using this mixture. Use only in well ventilated areas.

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STORAGE Store in tightly closed containers. Store in a cool, dry well-ventilated place. Avoid exposure to direct sunlight or sources of heat or ignition. Store away from incompatible materials (see Section 10). Protect containers against physical damage. Guard against static discharge.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE STANDARDS An Australian exposure standard for this mixture has not been set by NOHSC/ASCC. Nor has an exposure standard been set for any of its hazardous ingredients, except hexylene glycol (see below).

Exposure Standard (HSIS November11)	TWA	STEL
Hexylene glycol	25 ppm	121mg/m ³ (peak limit)

BIOLOGICAL LIMIT VALUES Not Regulated

ENGINEERING CONTROLS Provide good general mechanical or natural ventilation. Use only in well ventilated areas. In areas where vapours, mists or aerosols are generated maintain product concentration in the air not just below exposure standard but reduce it as low as practicable using local exhaust ventilation.

PERSONAL PROTECTION EQUIPMENT The PPE listed below is a general guide only. Personal protective equipment must be selected for each specific work environment. Final choice will depend on the quantity used, equipment used, how the substance is processed and on the airborne concentration present. The suitability of each PPE for this mixture should then be ascertained with the respective supplier.

Under condition of ordinary use and satisfactory ventilation, wear chemical safety goggles, suitable impermeable gloves, long sleeved overalls, and impervious boots and full length chemically resistant apron — as appropriate for the work environment. In the event of a large spill or if working in enclosed areas, or if mists, aerosols or vapours are generated and their airborne concentration is unknown wear, in the addition to the above, a full-face AS/NZ 1716 compliant cartridge type respirator with an organic vapour filter; combine it with a particulate filter in the presence of aerosols or mists (for selection guidance see AS/NZ 1715).

If respiratory protection in the workplace can only be achieved by the use of PPE, or when working in confined spaces, use a full-face air supplied respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION & PROPERTIES

- Appearance:** Golden brown liquid
- Odour:** Similar to orange blossom
- pH:** ca. 7.5
- Vapour Pressure:** Not established
- Vapour Density:** Not established
- Boiling Point:** > 100°C
- Freezing Range:** Not established
- Solubility in Water:** Emulsifiable
- Specific Gravity:** ca. 1.03
- Ignition temperature:** Not established
- Flashpoint:** None detected (closed cup)
- Firepoint:** None detected
- Flammability limits (v/v):** LEL = not established ; UEL = Not established

OTHER PROPERTIES No relevant data

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10. STABILITY AND REACTIVITY

<u>CHEMICAL STABILITY</u>	This material is stable under normal ambient and anticipated storage and handling conditions.
<u>CONDITIONS TO AVOID</u>	Hot surfaces, strong heating, open flames or other ignition sources.
<u>INCOMPATIBLE MATERIALS</u>	Strong oxidising agents, strong acids, strong reducing agents, acetic anhydride and acid chlorides.
<u>HAZARDOUS DECOMPOSITION PRODUCTS</u>	Carbon monoxide, carbon dioxide, halogenated compounds, hydrogen chloride, partially oxidised hydrocarbons of unknown composition.
<u>HAZARDOUS REACTIONS</u>	Hazardous polymerization is not expected to occur. Decomposition may occur on contact with strong acids.

11. TOXICOLOGICAL INFORMATION

<u>ACUTE HEALTH EFFECTS</u>	<p>Swallowed: No significant adverse health effects are expected if only small amounts (less than a mouthful) are ingested. May produce abdominal discomfort. LD₅₀ (rat) = 4378 mg/kg.</p> <p>Eyes: Strong eye irritant. Effects and symptoms depend on the duration, quantity and type of exposure (liquid, vapour, mist or aerosol). They may range from a burning sensation, lacrimation to reddening of the eyes to severe damage to the eyes. Irritation score (rabbit) = 39.3/110</p> <p>Skin: Irritant to the skin and mucous membranes. Effects and symptoms depend on the duration, quantity and type of exposure (liquid, vapour, mist or aerosol). They may range from a burning sensation, reddening of the skin, swelling to chemical burns. Risk of skin absorption. LD₅₀ (rabbit) > 2020 mg/kg. Irritation score (rabbit) = 0.9/8.</p> <p>Inhaled: Mists, vapours or aerosols may cause irritation to the nose and upper respiratory system. Inhalation of high concentration of vapour may cause headaches and nausea.</p>
<u>CHRONIC HEALTH EFFECTS</u>	This mixture is not a sensitizer.

12. ECOLOGICAL INFORMATION

<u>ECOTOXICITY</u>	WD 881 E
	<p><u>Fish Toxicity:</u> Rainbow trout, LC₅₀ = 10.8 mg/L/96 h</p> <p><u>Invertebrate Toxicity:</u> Daphnia magna, EC₅₀ = ca. 7.8 mg/L/48 h</p> <p><u>Algal Toxicity:</u> Selenastrum capricornutum, IC₅₀ = ca. 7.6 mg/L/96</p>
<u>PERSISTENCE AND DEGRADABILITY</u>	“Readily biodegradable”: >60% BOD, 28 days when tested to OECD method 301D (>85%/28 d).
<u>MOBILITY</u>	Soluble in water. No other data found.
<u>BIOACCUMULATION</u>	Very low bioaccumulation potential

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13. DISPOSAL CONSIDERATIONS

Waste resulting from this mixture 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 and classify the waste 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. Send empty drums to a drum recycling organisation (ensure that the labels are legible and remain on the drums). If permitted, the best option for disposal is incineration, with or without a flammable solvent at an accredited incineration facility.

SPECIAL PRECAUTIONS Do not allow this material to contaminate soil, sewerage systems, surface or ground water. Use only the original containers or equivalent and ensure they are properly sealed to prevent spillage. The empty drums must not be reused, cut, welded drilled or subjected to a grinding operation or be stored in the vicinity of such operations.

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

14. TRANSPORT INFORMATION

This product has not been classified as Dangerous Goods. It is therefore not subject to the provisions of ADG, IMDG/IMO, ICAO/IATA or UN transport codes.

15. REGULATORY INFORMATION

AICS All ingredients are listed on the AICS

SUSMP Not scheduled

AgVet Not listed

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16. OTHER INFORMATIONMSDS

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Changes made to the previous issue: Not applicable

ACRONYMS

ACGIH: American Conference of Governmental Industrial Hygienists
ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS: Australian Inventory of Chemical Substances.
BAK: Biological Tolerance Value
BEI: Biological Exposure Indices.
CAS Number: Chemical Abstracts Service Registry Number
CNS: Central nervous system
DFG: Deutsche Forschungsgemeinschaft
DG: Dangerous Goods
IARC: International Agency for Research on Cancer.
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods Code
IMO: International Maritime Organization
N.O.S.: Not otherwise specified.
NOHSC: National Occupational Health and Safety Commission.
PPE: Personal protection equipment.
SUSMP: Standard for the Uniform Scheduling of Medicines and Poisons.
UN Number: United Nations Number

This MSDS summarises at 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 MSDS 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.
