

**SECTION 1: Identification : Product identifier and chemical identity****1.1. Product identifier**

Product name : PHOS-CHEK® WD881A  
Product code : AST10177

**1.2. Recommended uses and restrictions**

Recommended use : Class A foam concentrate, fire suppressant

**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)**

Eye Irrit. 2A H319

**2.2. Label elements**

Hazard pictograms (GHS-AU) :



GHS07

Signal word (GHS-AU) :

Warning

Contains :

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts ; 2,4-Pentanediol, 2-methyl-

Hazard statements (GHS-AU) :

H319 - Causes serious eye irritation

Precautionary statements (GHS-AU) :

P264 - Wash hands, forearms and face thoroughly after handling  
P280 - Wear protective gloves, protective clothing, eye protection and face protection  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337+P313 - If eye irritation persists: Get medical advice

**2.3. Other hazards**

No additional information available

**SECTION 3: Composition/Information on ingredients**

Name	CAS No	%
Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts	68439-57-6	20 - <30
2,4-Pentanediol, 2-methyl-	107-41-5	20 - <30
Non-Hazardous Ingredients		>60

**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.  
First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice.  
First-aid measures after eye contact : 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.  
First-aid measures after ingestion : Call a poison center or physician if you feel unwell.

**4.2. Symptoms caused by exposure**

Symptoms/injuries after eye contact : Eye irritation.

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

Other medical advice or treatment : Treat symptomatically.

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## Safety Data Sheet

According to the Model Work Health and Safety Regulations

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : For surrounding materials: Water spray. Dry powder. Foam. Carbon dioxide.  
This material is a fire retarding agent and is not combustible.

#### 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 : Ventilate spillage area. Avoid contact with skin and eyes.

##### 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

When possible and practical, minimise the potential for pollution or environmental harm to be caused:

- avoid discharging to environmentally sensitive areas (where plant is mobile)
- avoid or minimise discharges to confined waterways where water turnover is limited

#### 6.3. Methods and material for containment and cleaning up

Clean-up: storage areas : Contain large spills with dikes and transfer the material to appropriate containers for reclamation or disposal. Absorb remaining material or small spills with an inert material and then place in a chemical waste container. Flush residual spill area with water.

Clean-up: direct land release : If firefighting foam is released to land, away from waterways, such as when used by Rural Fire Brigades for ignition prevention, fire control, extinguishment, damping-down and training on vegetation fires, it is expected that no adverse effects will occur from the application of small amounts of foam at low concentrations. For the normal application of foam across a wide area or fire front away from waterways the foam will rapidly soak into the soil and biodegrade in-situ. Significant releases of foam directly to, or within 50 metres of a waterway during rural firefighting should be avoided where possible.

Concentrated and repeated applications such as on intensively-used bare-earth training areas, should have firewater control measures in place to prevent immediate releases to adjacent waterways. Where a volume of firewater is generated, beyond that which can readily soak into the soil or be irrigated to adjacent land to soak in, control measures such as bunding or ponds should be used to hold the water for at least 28 days to allow it to degrade until it is suitable for release and/or to evaporate.

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

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing vapour or mist.

Hygiene measures : Wash contaminated clothing before reuse. 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.

Emptied container retains vapor 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 this SDS.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters - exposure standards

##### 2,4-Pentanediol, 2-methyl- (107-41-5)

Australia Exposure Standards	Peak limitation	25 ppm
USA - ACGIH	ACGIH Ceiling (ppm)	25 ppm

#### 8.2. Monitoring

No additional information available

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### 8.3. Appropriate engineering controls

Appropriate engineering controls : Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment. Consult NFPA Standard 91 for design of exhaust systems.

### 8.4. Personal protective equipment

Hand protection : Chemical resistant gloves. Consult glove manufacturer to determine appropriate type glove for given application.

Eye protection : Where there is significant potential for eye contact, wear chemical goggles and have eye flushing equipment available.

Skin and body protection : Wear face shield and chemical resistant clothing such as a rubber apron when splashing is likely. Wash contaminated skin promptly. Launder contaminated clothing and clean protective equipment before reuse. Wash thoroughly after handling.

Respiratory protection : Avoid breathing vapor or mist. Use NIOSH/MSHA approved respiratory protection equipment (full facepiece recommended) when airborne exposure limits are exceeded. Consult respirator manufacturer to determine appropriate type equipment for given application. Generally a full-face AS/NZ 1716 compliant cartridge respirator with an organic vapour filter is recommended. For selection guidance see AS/NZ 1715. Observe respirator use limitations specified by regulation or the manufacturer.

Environmental exposure controls : Avoid release to the environment.

## SECTION 9 : Physical and Chemical Properties

Physical state : Liquid

Appearance : No data available

Color : Tan liquid

Odor : Similar to orange blossoms

Odor threshold : No data available

pH : 6 – 8, 7.5 (typical)

Relative evaporation rate (butyl acetate=1) : No data available

Pour Point : < 18°C

Boiling point : > 100°C

Flash point : None detected (closed cup)  
>100°C Flash/Fire point (open cup)

Auto-ignition temperature : No data available

Flammability (solid, gas) : No data available

Vapor pressure : No data available

Relative density : No data available

Specific gravity / density : Density : 1.02 kg/L  
Relative density : 1.024

Solubility : Readily self-disperses and dissolves in fresh, brackish and sea water at all concentrations.

Partition coefficient n-octanol/water : No data available

Viscosity : Viscosity, dynamic : < 50 cP @ 24°C

Explosive properties : No data available

Explosion limits : No data available

Minimum ignition energy : No data available

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 : Oxides of carbon, partially oxidized hydrocarbons, smoke and soot.

## SECTION 11: Toxicological information

Data from ICL Performance Products LP single-dose (acute) animal studies with this material are given below:

	Liquid Concentrate		Use Dilution Solution	
Acute toxicity (oral)	: Practically Nontoxic	Rat LD <sub>50</sub> > 5,050 mg/kg	Practically Nontoxic	Rat LD <sub>50</sub> > 5,050 mg/kg

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	Liquid Concentrate		Use Dilution Solution	
Acute toxicity (dermal)	No More Than Slightly Toxic	Rabbit LD <sub>50</sub> , > 2,020 mg/kg	No More Than Slightly Toxic	Rabbit LD <sub>50</sub> , > 2,020 mg/kg
Acute toxicity (inhalation)	Not Classified	No Data	Not Classified	No Data
Eye Irritation	Moderately Irritating	Rabbit 24-hr 24.7/110.0	Practically Non-Irritating	Rabbit 24-hr 2.0/110.0
Skin Irritation	Slightly Irritating	Rabbit 24-hr 1.8/8.0	Practically Non-Irritating	Rabbit 4-hr 0.0/8.0

Data for components:

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (68439-57-6)	
LD50 oral rat	2220 mg/kg
LD50 dermal rabbit	> 740 mg/kg

2,4-Pentanediol, 2-methyl- (107-41-5)	
LD50 oral rat	3700 mg/kg
LC50 inhalation rat	> 310 mg/m <sup>3</sup> (Exposure time: 1 h)

Respiratory or skin sensitization	: 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

PHOS-CHEK® WD881A	
Density	1.024 kg/L

## 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 be toxic to aquatic life. Due to the sensitivity of aquatic life to chemicals, we do not recommend the application of WD881A directly into streams or others bodies of water. WD881A meets the requirements of USDA Forest Service Specification 5100-307a.
Aquatic acute	: The following data have been classified using the criteria adopted by the European Economic Community (EEC) for aquatic organism toxicity. 96-hr LC50 Rainbow Trout, 16.8 mg/l, Harmful
Aquatic chronic	: Not classified

### 12.2. Persistence and degradability

OECD 301B, OPPTS 835.3110(m) and U.S. Forest Service Specification 5100-307a.	At the end of the 28-day test, the concentrate showed 85.23% biodegradation. Based on this result, the concentrate is considered to be readily biodegradable.
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Readily biodegradable

### 12.3. Bioaccumulative potential

2,4-Pentanediol, 2-methyl- (107-41-5)	
Partition coefficient n-octanol/water	See section 12.1 on ecotoxicology

### 12.4. Mobility in soil

2,4-Pentanediol, 2-methyl- (107-41-5)	
Partition coefficient n-octanol/water	See section 12.1 on ecotoxicology

### 12.5. Other adverse effects

Ozone	: Not classified
Other adverse effects	: No additional information available

PHOS-CHEK® WD881A	
Fluorinated greenhouse gases	False
GWPmix comment	No known effects from this product.

Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts (68439-57-6)	
Fluorinated greenhouse gases	False

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### 2,4-Pentanediol, 2-methyl- (107-41-5)

Fluorinated greenhouse gases	False
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## SECTION 13: Disposal considerations

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

## 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 : No data available

Shock sensitivity : No data available

### 14.7. Additional information

Other information : No supplementary information available.

### 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 Inventories:

AICS: Listed

TSCA Inventory: Listed

DSL Inventory: Listed

#### Australia Regulations:

AgVet: Not Listed

SUSMP: Not Scheduled

### 15.2. International agreements

No additional information available

## SECTION 16: Any other relevant information

Revision date : 27/04/2017

Classification:

Eye Irrit. 2A	H319
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Phos-Chek ® is a registered trademark of ICL Performance Products LP.

# PHOS-CHEK® WD881A

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According to the Model Work Health and Safety Regulations

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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