SECTION 1: Identification : Product identifier and chemical identity

1.1. Product identifier

Product name : PHOS-CHEK® INSUL-8
Product code : AST10196

1.2. Recommended uses and restrictions

Recommended use : Water enhancing gel for fire protection

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)
Skin Irrit. 2 H315
STOT – Single Exposure 3 H336

2.2. Label elements

Hazard pictograms (GHS-AU) : GHS07

Signal word (GHS-AU) : Warning
Contains : Petroleum distillates, hydrotreated light, Triethanolamine
Hazard statements (GHS-AU) : H315 - Causes skin irritation
H336 – May cause drowsiness or dizziness

Precautionary statements (GHS-AU) : P261 – Avoid breathing mist/vapours/spray
P264 - Wash hands, forearms and face thoroughly after handling
P271 – Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P304+P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 – Call a poison centre/doctor if you feel unwell.
P332+P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P405 – Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS No</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum distillates, hydrotreated light</td>
<td>64742-47-8</td>
<td>25 - &lt;50</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>102-71-6</td>
<td>10 - &lt;30</td>
</tr>
<tr>
<td>Non-Hazardous Ingredients</td>
<td></td>
<td>&gt;20 - &lt;65</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Immediately remove any clothing soiled by product.
### 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 and acidic soap. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.

### First-aid measures after eye contact
Rinse eyes with water for 15 minutes under running water as a precaution. Seek medical advise.

### First-aid measures after ingestion
If symptoms persist call a physician or POISON CENTER® (Australia Telephone 13 11 26).

### 4.2 Symptoms caused by exposure
Symptoms/effects after skin contact: Irritation.

### 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: CO₂, Water spray. Dry powder. Fight larger fires with water spray or alcohol resistant foam.

#### 5.2 Special hazards arising from the substance or mixture
In case of fire, Carbon Monoxide (CO) may be released.

#### 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: Wear protective clothing. Ventilate spillage area. Avoid contact with skin and eyes. Use respiratory protection against the effects of fumes or aerosols.

##### 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. Do not allow to enter sewers, surface or ground water.

#### 6.3 Methods and material for containment and cleaning up
Methods for cleaning up: Absorb with liquid-binding material (sand diatomite, acid binders, universal binders, sawdust) and mechanically remove product. Flush contaminated areas with plenty of water. Provide ventilation. Send for recovery or disposal in suitable receptacles.

### 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. Prevent formation of aerosols. Store in a cool, dry place in tightly closed containers.

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.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters - exposure standards

<table>
<thead>
<tr>
<th>Triethanolamine (102-71-6)</th>
<th>Australia TWA (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>5 mg/m³</td>
</tr>
</tbody>
</table>

8.2 Monitoring
No additional information available
According to the Model Work Health and Safety Regulations

8.3. Appropriate engineering controls

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

8.4. Personal protective equipment

Hand protection : Protective gloves
Eye protection : Safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment
Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

Physical state : Liquid
Appearance : No data available
Colour : Yellow-brown
Odour : Aromatic
Odour threshold : No data available
pH : 5 - 6
Relative evaporation rate (butylacetate=1) : No data available
Melting point / Freezing point : Melting point : Not applicable
Boiling point : No data available
Flash point : > 177 °F / > 81 °C (COC)
Auto-ignition temperature : No data available
Flammability (solid, gas) : No data available
Vapour pressure : No data available
Relative density : No data available
Density : Density : 1.02 kg/L
Solubility : Miscible
Partition coefficient n-octanol/water : No data available
Viscosity : Viscosity, dynamic (40 °C / 104 °F) : 950 cP
Viscosity, Kinematic (40 °C / 104 °F) : 961 mm²/s
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 : 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.

SECTION 11: Toxicological information

Acute toxicity (oral) : LD₅₀ > 5050 mg/kg (rat)
Acute toxicity (dermal) : LD₅₀ > 2020 mg/kg (rabbit)
Acute toxicity (inhalation) : Not classified.

Petroleum distillates, hydrotreated light (64742-47-8)

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD₅₀ oral rat</td>
<td>&gt; 5000 mg/kg</td>
</tr>
<tr>
<td>LD₅₀ dermal rabbit</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>LC₅₀ inhalation rat</td>
<td>&gt; 5.2 mg/l/4h</td>
</tr>
</tbody>
</table>
PHOS-CHEK® INSUL-8
Safety Data Sheet

According to the Model Work Health and Safety Regulations

<table>
<thead>
<tr>
<th>Triethanolamine (102-71-6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation : Causes moderate skin irritation.
pH: 5 - 6

Serious eye damage/irritation : Causes moderate eye irritation
pH: 5 - 6

Respiratory or skin sensitisation : Not classified.

Germ cell mutagenicity : Not classified.

Carcinogenicity : Not classified.

Reproductive toxicity : Not classified.

STOT - single exposure : Not classified.

STOT - repeated exposure : Not classified.

<table>
<thead>
<tr>
<th>PHOS-CHEK® INSUL-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
</tr>
</tbody>
</table>

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 : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Acute aquatic toxicity : LC50 (96h) 1051 mg/L (Rainbow Trout)

Chronic aquatic toxicity : Not classified.

Petroleum distillates, hydrotreated light (64742-47-8)

<table>
<thead>
<tr>
<th>LC50 fish 1</th>
<th>45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 2</td>
<td>2.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])</td>
</tr>
<tr>
<td>BCF fish 1</td>
<td>61 - 159</td>
</tr>
</tbody>
</table>

Triethanolamine (102-71-6)

<table>
<thead>
<tr>
<th>LC50 fish 1</th>
<th>10600 - 13000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 2</td>
<td>&gt; 1000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])</td>
</tr>
<tr>
<td>BCF fish 1</td>
<td>&lt; 3.9</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water</td>
<td>-2.53</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Petroleum distillates, hydrotreated light (64742-47-8)

<table>
<thead>
<tr>
<th>BCF fish 1</th>
<th>See section 12.1 on ecotoxicology</th>
</tr>
</thead>
</table>

Triethanolamine (102-71-6)

| BCF fish 1       | See section 12.1 on ecotoxicology |

Partition coefficient n-octanol/water See section 12.1 on ecotoxicology

12.4. Mobility in soil

Triethanolamine (102-71-6)

| 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® INSUL-8
Safety Data Sheet

According to the Model Work Health and Safety Regulations

PHOS-CHEK® INSUL-8
Fluorinated greenhouse gases: False
GWPmix comment: No known effects from this product.

**Petroleum distillates, hydrotreated light (64742-47-8)**
Fluorinated greenhouse gases: False

**Triethanolamine (102-71-6)**
Fluorinated greenhouse gases: False

### SECTION 13: Disposal considerations

Waste treatment methods:
Dispose of contents/container in accordance with licensed collector’s sorting instructions. Empty contaminated packagings can be recycled after thorough and proper cleaning. Packagings that cannot be cleansed must be disposed of in the same manner as the product. Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated adhering to official regulations.

### 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 regulated

**IMDG**
Transport hazard class(es) (IMDG): Not regulated

**IATA**
Transport hazard class(es) (IATA): Not regulated

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
Hazchem code: Not applicable

### SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**Global Chemical Inventories:**
AICS: All components Listed

15.2. International agreements
No additional information available

### SECTION 16: Any other relevant information
PHOS-CHEK® INSUL-8  
Safety Data Sheet  
According to the Model Work Health and Safety Regulations  

Revision date : 16/08/2017  
Classification:  

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irrit. 2</td>
<td>H315</td>
</tr>
<tr>
<td>STOT – Single Exposure 3</td>
<td>H336</td>
</tr>
</tbody>
</table>

SDS Australia  
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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