

**SECTION 1: Identification**

**1.1. Identification**

Product form : Mixture  
Product name : PHOS-CHEK® WD881

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Use of the substance/mixture : Fire suppressant foam concentrate

**1.3. Details of the supplier of the safety data sheet**

**Manufacturer**

Perimeter Solutions  
10667 Jersey Blvd.  
Rancho Cucamonga CA, 91730  
T 1-800-682-3626

Perimeter Solutions Canada Ltd.,  
3060 Airport Rd.,  
Kamloops B.C., V2B 7X2  
T. 250 554 3530

**1.4. Emergency telephone number**

Emergency number : CHEMTREC 800-424-9300  
CANUTEC 613-996-6666 (transport only)

**SECTION 2: Hazard Identification**

**2.1. Classification of the substance or mixture**

**GHS classification**

Eye Irrit. 2A H319  
Skin Sens. 1 H317

**2.2. Label elements**

**GHS labelling**

Hazard pictograms (GHS) :



GHS07

Signal word (GHS) : Warning  
Hazard statements (GHS) : H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
Precautionary statements (GHS) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
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

**2.4. Unknown acute toxicity**

Not applicable

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

**3.1. Substances**

Not applicable

# PHOS-CHEK® WD881

## Safety Data Sheet

According to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012 and the Hazardous Products Regulations (HPR) WHMIS 2015

### 3.2. Mixtures

| Name  | Product Identifier     | %       |
|---|------------------------|---------|
| Alpha-olefin Sulfonate Solution (Non-hazardous) | (CAS-No.) Trade Secret | 60 - 80 |
| 2,4-Pentanediol, 2-methyl-                      | (CAS-No.) 107-41-5     | 10 - 30 |
| Water   | (CAS-No.) 7732-18-5    | 0 - 5   |
| Lauryl Alcohol                                  | (CAS-No.) 68855-56-1   | 1 - 5   |
| D-Limonene                                      | (CAS-No.) 5989-27-5    | 1 - 5   |

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret  
 Comments : This product contains no PFAS ingredients commonly found in Class B foam concentrates.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact : IF ON SKIN: Wash with plenty of Water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : IF IN EYES: 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/attention.
- First-aid measures after ingestion : Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/effects after inhalation : May cause irritation to the respiratory tract.
- Symptoms/effects after skin contact : May cause skin irritation. Repeated exposure may cause skin dryness or cracking. May cause an allergic skin reaction.
- Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
- Symptoms/effects after ingestion : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### SECTION 5: Fire-fighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : None known.

#### 5.2. Special hazards arising from the substance or mixture

- Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon. Hydrocarbons. smokes.

#### 5.3. Advice for firefighters

- Protection during firefighting : Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

##### 6.1.1. For non-emergency personnel

No additional information available

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

- For containment : Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
- Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

## SECTION 7: Handling and Storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Ensure adequate ventilation.
- Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep out of the reach of children. Keep container tightly closed.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

|   |  |   |
|---|--|---|
| <b>Water (7732-18-5)</b>  |  |   |
| Not applicable  |  |   |
| <b>Lauryl Alcohol (68855-56-1)</b>                                    |  |   |
| Not applicable  |  |   |
| <b>2,4-Pentanediol, 2-methyl- (107-41-5)</b>                          |  |   |
| ACGIH   | ACGIH TWA (ppm)                          | 25 ppm (vapor fraction)   |
| ACGIH   | ACGIH STEL (mg/m <sup>3</sup> )          | 10 mg/m <sup>3</sup> (inhalable particulate matter, aerosol only) |
| ACGIH   | ACGIH STEL (ppm)                         | 50 ppm (vapor fraction)   |
| NIOSH   | NIOSH REL (ceiling) (mg/m <sup>3</sup> ) | 125 mg/m <sup>3</sup>   |
| NIOSH   | NIOSH REL (ceiling) (ppm)                | 25 ppm  |
| <b>D-Limonene (5989-27-5)</b>   |  |   |
| Not applicable  |  |   |
| <b>Alpha-olefin Sulfonate Solution (Non-hazardous) (Trade Secret)</b> |  |   |
| Not applicable  |  |   |

### 8.2. Exposure controls

- Appropriate engineering controls : Ensure good ventilation of the work station.
- Hand protection : Wear suitable gloves resistant to chemical penetration.
- Eye protection : Wear eye/face protection.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Environmental exposure controls : Avoid release to the environment.
- Other information : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Colour : Golden Brown
- Odour : Similar to Orange blossom
- Odour threshold : No data available

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|  |  |
|--|--|
| pH   | : 6.75 – 8.25                            |
| Melting point                              | : No data available                      |
| Freezing point                             | : No data available                      |
| Boiling point                              | : No data available                      |
| Flash point                                | : > 212 °F / 100 °C [Complies with 307a] |
| Relative evaporation rate (butylacetate=1) | : No data available                      |
| Flammability (solid, gas)                  | : No data available                      |
| Vapour pressure                            | : No data available                      |
| Relative vapour density at 20 °C           | : No data available                      |
| Relative density                           | : No data available                      |
| Density                                    | : 1.015 – 1.035 g/ml <sup>3</sup>        |
| Solubility                                 | : Water: Forms foam                      |
| Partition coefficient n-octanol/water      | : No data available                      |
| Auto-ignition temperature                  | : No data available                      |
| Decomposition temperature                  | : No data available                      |
| Viscosity, kinematic                       | : No data available                      |
| Viscosity, dynamic                         | : < 60 cP @ 70 °F                        |
| Explosive limits                           | : No data available                      |
| Explosive properties                       | : No data available                      |
| Oxidising properties                       | : No data available                      |

### 9.2. Other information

|                 |  |
|-----------------|--|
| Pour point      | : 9 °F / -12.8 °C                                    |
| Surface tension | : 33.8 (0.1%); 29.6 (0.3%); 27.9 (0.6%); 27.3 (1.0%) |

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

May include, and are not limited to: oxides of carbon. Hydrocarbons. Smokes.

## SECTION 11. Toxicological information

### 11.1. Information on toxicological effects

|                             |                   |
|-----------------------------|-------------------|
| Acute toxicity (oral)       | : Not classified. |
| Acute toxicity (dermal)     | : Not classified. |
| Acute toxicity (inhalation) | : Not classified. |

| PHOS-CHEK® WD881   |              |
|--------------------|--------------|
| LD50 oral rat      | 4378 mg/kg   |
| LD50 dermal rabbit | > 2020 mg/kg |

| PHOS-CHEK® WD881 (1% solution in water) |              |
|---|--------------|
| LD50 oral rat                           | > 5050 mg/kg |
| LD50 dermal rabbit                      | > 2020 mg/kg |

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| <b>2,4-Pentanediol, 2-methyl- (107-41-5)</b> |  |
|--|--|
| LC50 inhalation rat                          | > 310 mg/m <sup>3</sup> (Exposure time: 1 h) |
| LC50 inhalation rat (Vapours - mg/l/4h)      | 155 mg/l/4h                                  |
| ATE CA (vapours)                             | 155 mg/l/4h                                  |

|                                   |   |
|-----------------------------------|---|
| Skin corrosion/irritation         | : Not classified. (Rabbit 24-hr 0.9/8.0)<br>1% solution in water: (Rabbit 4-hr 0.0/8.0)<br>pH: 8.4                      |
| Serious eye damage/irritation     | : Causes serious eye irritation. (Rabbit 24-hr 39.3/110.0)<br>1% solution in water: (Rabbit 24-hr 7.5/110.0)<br>pH: 8.4 |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction.  |
| Germ cell mutagenicity            | : Not classified.   |
| Carcinogenicity                   | : Not classified.   |

| <b>D-Limonene (5989-27-5)</b>            |                                 |
|--|---------------------------------|
| IARC group                               | 3 - Not classifiable            |
| National Toxicology Program (NTP) Status | 1 - Evidence of Carcinogenicity |

|                                     |   |
|-------------------------------------|---|
| Reproductive toxicity               | : Not classified.   |
| STOT-single exposure                | : Not classified.   |
| STOT-repeated exposure              | : Not classified.   |
| Aspiration hazard                   | : Not classified.   |
| Symptoms/effects after inhalation   | : May cause irritation to the respiratory tract.  |
| Symptoms/effects after skin contact | : May cause skin irritation. Repeated exposure may cause skin dryness or cracking. May cause an allergic skin reaction.   |
| Symptoms/effects after eye contact  | : Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. |
| Symptoms/effects after ingestion    | : May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.  |
| Other information                   | : Likely routes of exposure: ingestion, inhalation, skin and eye.   |

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

| <b>PHOS-CHEK® WD881</b> |  |
|-------------------------|--|
| LC50 fish 1             | 10.8 mg/l (Exposure time: 96 h - Species: Rainbow Trout) |

#### 12.2. Persistence and degradability

| <b>PHOS-CHEK® WD881</b>       |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Readily biodegradable. |

#### 12.3. Bioaccumulative potential

| <b>PHOS-CHEK® WD881</b>   |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Other adverse effects

Other information : No other effects known.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Do not re-use empty containers.

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## Safety Data Sheet

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### SECTION 14: Transport Information

Department of Transportation (DOT) and Transportation of Dangerous Goods (TDG)

In accordance with DOT/TDG

Not regulated

### SECTION 15: Regulatory Information

#### 15.1. Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

All components of this product are listed, or excluded from listing, on the Canadian DSL (Domestic Substances List) and NDSL (Non-Domestic Substances List) inventories.

#### 15.2. International regulations

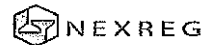
No additional information available

#### 15.3. US State regulations

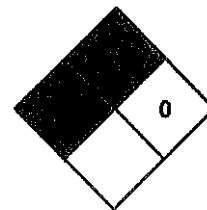
California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### SECTION 16: Other Information

Revision date : 05/16/2019  
Other information : None.  
Prepared by : Nexreg Compliance Inc.  
[www.Nexreg.com](http://www.Nexreg.com)



NFPA health hazard : 2  
NFPA fire hazard : 0  
NFPA reactivity : 0



Hazard Rating  
Health : 2 Moderate Hazard  
Flammability : 0 Minimal Hazard  
Physical : 0 Minimal Hazard

SDS HazCom 2012 - WHMIS 2015 (NexReg)

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