

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

Date of issue: 05/16/2019 Revision date: 06/18/2020 Version: 1.1

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : PHOS-CHEK® WD881 Class A Foam Concentrate

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 or manufacturer or distributor of the safety data sheet

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. 1-250-554-3530	Perimeter Solutions LP, Solberg 11520 Brookfield Ave. Green Bay, WI 54313 T. 1-920-593-9445
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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

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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

Water (7732-18-5)		
Not applicable		
Lauryl Alcohol (68855-56-1)		
Not applicable		
2,4-Pentanediol, 2-methyl- (107-41-5)		
ACGIH	ACGIH TWA (ppm)	25 ppm (vapor fraction)
ACGIH	ACGIH STEL (mg/m ³)	10 mg/m ³ (inhalable particulate matter, aerosol only)
ACGIH	ACGIH STEL (ppm)	50 ppm (vapor fraction)
NIOSH	NIOSH REL (ceiling) (mg/m ³)	125 mg/m ³
NIOSH	NIOSH REL (ceiling) (ppm)	25 ppm
D-Limonene (5989-27-5)		
Not applicable		
Alpha-olefin Sulfonate Solution (Non-hazardous) (Trade Secret)		
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 ³
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 Class A Foam Concentrate	
LD50 oral rat	4378 mg/kg
LD50 dermal rabbit	> 2020 mg/kg

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

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2,4-Pentanediol, 2-methyl- (107-41-5)	
LC50 inhalation rat	> 310 mg/m ³ (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) 1% solution in water: (Rabbit 4-hr 0.0/8.0) pH: 8.4
Serious eye damage/irritation	: Causes serious eye irritation. (Rabbit 24-hr 39.3/110.0) 1% solution in water: (Rabbit 24-hr 7.5/110.0) pH: 8.4
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Not classified.

D-Limonene (5989-27-5)	
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.
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PHOS-CHEK® WD881 Class A Foam Concentrate	
LC50 fish 1	10.8 mg/l (Exposure time: 96 h - Species: Rainbow Trout)

12.2. Persistence and degradability

PHOS-CHEK® WD881 Class A Foam Concentrate	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

PHOS-CHEK® WD881 Class A Foam Concentrate	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information	: No other effects known.
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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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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

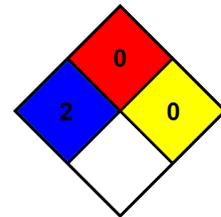
California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Revision date : 06/18/2020
Other information : None.
Prepared by : Nexreg Compliance Inc.
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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