

SAFETY DATA SHEET

According to
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: **PHOS-CHECK® FIRST RESPONSE Class A Foam Concentrate**
Product Use: Fire suppressant foam concentrate
Restriction of Use: Refer to Section 15

New Zealand Supplier: **PSL Fire & Safety**
Address: 10 Akatea Rd,
Glendene
Auckland 0602

Telephone: +64 9 818 8048
Fax: +64 9 818 4484
Email: sales@pslfireandsafety.co.nz

Emergency No: 0800 764 766 (National Poison Centre)

Date of SDS: 6 November 2020 – Rev 2

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: Fire Fighting Chemicals – HSR002573

Pictograms



Irritant

Signal Word: **Warning**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.5B	H317	May cause an allergic skin reaction.	Skin Sens. 1

Prevention Code	Prevention Statement
P103	Read label before use.
P261	Avoid breathing fumes, vapours or spray.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective clothing.

Response Code	Response Statement
P363	Wash contaminated clothing before reuse.
P302 + P352	IF ON SKIN: Wash with plenty of soap and 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.

Storage Code	Storage Statement
None allocated	

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Alpha olefin Sulfonate Solution (non-hazardous)	30-60	Proprietary
2,4-pentanediol, 2-methyl-	7-13	107-41-5
Lauryl alcohol	0.5 – 1.5	68855-56-1
d-limonene	0.5 – 1.5	5989-27-5
Water	To bal	7732-18-4

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate medical attention.
If on Skin	Remove contaminated clothing and wash before reuse. Wash with plenty of soap and water. If skin irritation or rash occurs: get medical advice/attention.
If Swallowed	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Symptoms:

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

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

Hazard Type	Non Flammable
Hazards from decomposition products	Products of combustion may include, and are not limited to: oxides of carbon, hydrocarbons and smokes.
Suitable Extinguishing media	Use extinguishing media appropriate for surrounding fire.
Precautions for firefighters and special protective clothing	Keep upwind of fire. Wear full firefighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
HAZCHEM CODE	None allocated

Section 6. Accidental Release Measures

Wear protective gear as detailed in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

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.

Dispose of waste according to the applicable local and national regulations.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Avoid breathing fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective clothing.
- Avoid contact with skin and eyes. Do not swallow.
- Handle and open container with care.
- When using do not eat, drink or smoke.
- Ensure adequate ventilation.
- Wash contaminated clothing before reuse.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep out of the reach of children.
- Keep container tightly closed.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA ppm mg/m³	STEL ppm mg/m³
2,4-Pentanediol, 2-methyl- [107-41-5]	Ceiling 25 ppm (121 mg/m ³)	

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2019 11TH EDITION.

Engineering Controls

Ensure good ventilation of the work station.

Personal Protection Equipment



Eyes	Wear eye/face protection.
Hands and skin	Wear suitable gloves resistant to chemical penetration. Wear suitable protective clothing.
Respiratory	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.
General	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

Appearance	Liquid
Colour	Golden Brown
Odour	Orange blossoms
Odour Threshold	Not available
pH	6.75 — 8.25
Boiling Point	[Complies with 307a]
Melting Point	Not available
Freezing Point	100°C
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Density	1.015 — 1.035 g/m1 ³
Solubility	Forms foam
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity dynamic	: < 50 cP @ 20 °C
Particle Characteristics	Not available
Other Information:	
Pour Point	-11.11 °C
Surface Tension	35.4 (0.1%); 30.3 (0.3%); 28.1 (0.6%); 27.5 (1.0%)

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use.
Conditions to Avoid	None known.
Incompatible Materials	None known.
Hazardous Decomposition Products	May include, and are not limited to: oxides of carbon, hydrocarbons and smokes.

Section 11 Toxicological Information

Acute Effects:

Swallowed	May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Dermal	Not applicable.
Inhalation	May cause irritation to the respiratory tract.
Eye	Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Skin	May cause skin irritation. Repeated exposure may cause skin dryness or cracking. May cause an allergic skin reaction.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Not applicable.

Acute Toxicity -

Chemical Name	LD50 (Oral)	LD50 (Dermal)	LC50 (inhalation)
First Response Class A Foam Concentrate (1 % solution in water)	>5050 mg/kg(Rat)	>2020 mg/kg (rabbit)	-
First Response Foam Concentrate	>5050 mg/kg(Rat)	>2020 mg/kg (rabbit)	-
D-Limonene (5989-27-5)	4400 mg/kg (Rat)	> 5 g/kg (rabbit)	-
2,4-Pentanediol, 2-methyl- (107-41-5)	3700 mg/kg (Rat)	12300 mg/kg (rabbit)	> 310 mg/m ³ /1h(rat) 155 mg/V4h (rat)

Section 12. Ecotoxicological Information

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

Product:

	Value	Method of testing	Species	Duration
Acute aquatic, fish	27.9m/l		Rainbow Trout	96h

Persistence and degradability	Readily biodegradable
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available

Section 13. Disposal Considerations

Disposal Method: Triple rinse and dispose of according to Local regulations. Empty containers or liners may retain some product residues. Do not re-use empty containers.

Precautions or methods to avoid: None known.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

Section 15 Regulatory Information

New Zealand:

This substance is classified as hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: Fire Fighting Chemicals – HSR002573

HSNO Classification: 6.4A, 6.5B

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	Not required
Emergency Response Plan	1000L (6.5B)
Secondary Containment	1000L (6.5B)
Restriction of Use	Only use for the intended purpose.

Section 16 Other Information

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact PSL Fire & Safety, if further information is required.

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