

SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: Stryker Green High-Performance Foam Concentrate
Product Use: For Extinguishing fires
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: 17 March 2021

Section 2. Hazards Identification

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

EPA Approval No: Fire Fighting Chemicals – HSR002573

Pictograms



Irritant

Chronic

Signal Word: **Danger**

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
9.1D	H401	Toxic to aquatic life.	Aquatic Chronic 4

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

P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

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.
2-(2butoxyethoxy)ethanol; diethylene Glycol monobutyl ether	<10	112-34-5
Anionic surfactants	<3	Proprietary
Amphoteric surfactant	<1	Proprietary
Decyl Glucoside	3-5<2	58846-77-8
1- Propanaminium, 3- Amino-N-(Carboxymethyl)-N ,N-Dimethyl -,N-Coco Acyl Derivs.,Hydroxides, Inner Salts	1-3<1	61789-40-0
Thiazoles	0.05	2634-33-5 / 2682-20-4

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. If eye irritation persists: Get medical advice.
If on Skin	Wash contaminated clothing before reuse. Wash skin with plenty of soap and water. Skin cleanser can be used. If skin irritation occurs: get medical advice/attention.
If Swallowed	Rinse mouth with water. Immediately give lots of water to drink. Consult a doctor/medical service 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:	Not applicable.
Inhalation:	Not applicable.
Skin/Irritation:	May cause an allergic skin reaction.
Eye:	Causes severe eye irritation. Redness of the eye tissue

Section 5. Fire Fighting Measures

Hazard Type	Non-flammable, non-combustible
Hazards from decomposition products	On burning: the release of toxic and corrosive gases/vapours (nitrous vapours, sulphur oxides, carbon monoxide - carbon dioxide)
Suitable Extinguishing media	For surrounding fires: all extinguishing media allowed.
Precautions for firefighters and special protective clothing	Protective clothing for exposure to chemicals. Heat/fire exposure: compressed air/oxygen apparatus when the concentrated product is on fire. Dilute toxic gases with water spray.
HAZCHEM CODE	None Allocated

Section 6. Accidental Release Measures

For personal protection, see section 8.

Take up liquid spill into an inert absorbent material, e.g.: sand/earth. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. Dispose as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Avoid breathing fumes, vapours and spray.
- Wash hands thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep container in a well-ventilated place.
- Meet the legal requirements.
- Keep away from heat sources.
- Storage temperature: 0/50 °C
- Materials for packaging:
 - suitable: HDPE

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

No ingredients have exposure limits

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

Measure the concentration in the air regularly if likely to exceed OEL. Work under local exhaust/ventilation

Personal Protection Equipment



Eyes	Wear safety glasses with side shields.
Hands	Wear butyl rubber gloves.
Skin	Wear butyl rubber protective clothes.
Respiratory	Wear gas mask with filter type A if conc. in air is likely to exceed OEL.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Brown
Odour	Mild
Odour Threshold	Not available
pH	7 to 8.5
Boiling Point	100°C
Melting Point	0°C
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure @ 20°C	24 hPa
Relative Vapour density	1
Relative Density @ 20°C	1.05
Solubility	Completely
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	Stable product under normal conditions of handling and storage.
Possibility of hazardous reactions	None known.
Conditions to Avoid	Keep away from: heat sources.
Incompatible Materials	No data available.
Hazardous Decomposition Products	On burning: release of toxic and corrosive gases/vapours (nitrous vapours, sulphur oxides, carbon monoxide - carbon

	dioxide)
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Section 11 Toxicological Information

Acute Effects:

Swallowed	Not applicable. Acute oral toxicity (rat): LD50 >2000 mg/kg
Dermal	Not applicable.
Inhalation	Not applicable.
Eye	Causes serious eye irritation. Redness of the eye tissue
Skin	May cause an allergic skin irritation.

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.

Individual component information:

Acute Toxicity:

Chemical Name	Oral – LD50	Dermal – LD50	Inhalation – LC50
2-(2butoxyethoxy)ethanol	>2410 mg/kg	2764 mg/kg (rabbit)	-

Section 12. Ecotoxicological Information

HSNO Classes: 9.1D = Harmful to aquatic life.

Persistence and degradability	Biodegradation: BOD5: Not determined Water: - readily biodegradable in water - test: BOD 73%, 28d, OECD 301D - soil: T½: N.D.
Bioaccumulation	- log pow: <3 (components) - BCF: N.D. - not bio accumulative (components)
Mobility in Soil	- Volatile organic compounds (VOC): 0% - Soluble in water
Other adverse effects	- Effect on ozone layer: Not dangerous for the ozone layer - Greenhouse effect: no data available

Section 13. Disposal Considerations

Disposal Method:

- Dilute
- May be discharged to wastewater treatment installation or reed bed
- Contains no organic halogen which may add to the AOX value
- Discharge or disposal must be handled according to national or local legislation regulations.

Precautions or methods to avoid: Do not allow to enter waterways.

Section 14 Transport Information

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, 9.1D

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	10 000L (9.1D)
Emergency Response Plan	10 000L (9.1D)
Secondary Containment	10 000L (9.1D)
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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