

SAFETY DATA SHEET

Product Name: SOLBERG FIRE-BRAKE 3150A CLASS A FOAM	Issue Date: 26 June 2019
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Region: New Zealand	Page: Page 1 of 8

1. Identification of the substance/preparation and of the company/undertaking

1.1 Identification of the substance or preparation:

Product name : SOLBERG FIRE-BRAKE 3150A CLASS A FOAM
Synonyms : Fire-Brake; Solberg Fire-Brake Class 'A' Foam; 3M FC-3150 FIRE-BRAKE BFFF FIRE FIGHTING FOAM CONCENTRATE; FireBrake Class 'A' Foam; WFFF (Fire Break)

1.2 Use of the substance/preparation:

Fire extinguishing medium: concentrate

1.3 Company/undertaking identification:

Australian Supplier Perimeter Solutions
Solberg Asia Pacific Pty Ltd
3 Charles Street
St. Marys NSW 2760, Australia
Tel: +61 2 9673 5300 (Mon-Fri, 9am to 5pm)

Overseas Supplier: Perimeter Solutions
AUXQUIMA
Poligono de Baina, Parcela 23
33682 Mieres (Asturias)
Spain
Tel: +34 985 24 29 45

Perimeter Solutions
The Solberg Company
1520 Brookfield Avenue
US-WI 54313 Green Bay - USA
Tel: +1 920 593 9445

New Zealand Distributor Connell Brothers
3rd Floor, 19 Great South Road
Auckland Newmarket 1051, New Zealand
Tel: +64 9 984 4700 (9am- 5pm, Mon-Fri)

1.4 Emergency telephone:

24HR EMERGENCY (New Zealand): 0800 154 666 (ChemCall)

2. Hazards identification

2.1 Classification of the substance or mixture

This product is Hazardous according to the *Hazardous Substances (Classification) Regulations 2001*.

6.4A Eye irritancy,
9.1D Ecotoxic.

Dangerous Goods (NZS 5433:2007): Not classified

2.2 Label elements

Hazard pictograms

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GHS07

Signal Word: Warning

Hazard statements:

H319 Causes serious eye irritation.
H402 Harmful to aquatic life.

Precautionary statements:

P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+350 IF ON SKIN: Gently wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P273 Avoid release to the environment.

2.3 Other hazards

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT)

This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

3. Composition/information on ingredients

Hazardous ingredients	CAS No.	Conc. (%)	Hazards	Hazard Statement
2-(2-butoxyethoxy) ethanol	112-34-5	<10	Eye Irrit. 2	H319
Alcohol sulfate C12-14, triethanolamine salt	90583-18-9	<5	Acute Tox. 4 Skin Irrit. 2 Eye Damage 1 Aquatic Chronic 3	H302 H315 H318 H412
1-propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	61789-40-0	<2	Skin Irrit.2 Eye Irrit. 2 Aquatic Acute 1	H315 H319 H410
Anionic surfactants	Proprietary	<5	Skin Irrit.2 Eye Irrit. 2	H315 H319

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4. First aid measures

- 4.1 After inhalation:
- Remove the victim into fresh air
 - Respiratory problems: consult a doctor/medical service
- 4.2 Skin contact:
- Rinse with water
 - Soap may be used
 - Take victim to a doctor if irritation persists
- 4.3 Eye contact:
- Rinse immediately with plenty of water
 - Take victim to an ophthalmologist if irritation persists
- 4.4 After ingestion:
- Rinse mouth with water
 - Immediately give lots of water to drink
 - Consult a doctor/medical service if you feel unwell

5. Fire-fighting measures

- 5.1 Suitable extinguishing media:
- Non combustible
 - For surrounding fires: all extinguishing media allowed
- 5.2 Unsuitable extinguishing media:
- No data available
- 5.3 Special exposure hazards:
- On burning: release of toxic and corrosive gases/vapours (nitrous vapours, sulphur oxides, carbon monoxide - carbon dioxide)
- 5.4 Instructions:
- Dilute toxic gases with water spray
- 5.5 Special protective equipment for firefighters:
- Heat/fire exposure: compressed air/oxygen apparatus
 - Protective clothing for exposure to chemicals

6. Accidental release measures

- 6.1 Personal precautions:
See heading 8.2/13
- 6.2 Environmental precautions:
- Contain released substance, pump into suitable containers
 - Plug the leak, cut off the supply
- 6.3 Methods for cleaning up:
- Take up liquid spill into 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

7. Handling and storage

- 7.1 Handling:
- Observe normal hygiene standards
- 7.2 Storage:
- Keep container in a well-ventilated place
 - Meet the legal requirements
 - Keep away from: heat sources

Storage temperature	: 0/50	°C
Quantity limits	: N.D.	kg
Storage life	: N.D.	days
Materials for packaging	:	
- suitable	: HDPE	
- to avoid	: no data available	

- 7.3 Specific use(s):
- See information supplied by the manufacturer for the identified use(s)

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8. Exposure controls/Personal protection

8.1 Exposure limit values:

8.1.1 Occupational exposure:

2-(2-butoxyethoxy) ethanol

AU 8h	: N/A	mg/m ³	N/A	ppm
AU-STEL	: N/A	mg/m ³	N/A	ppm

NZ WES 8h	: N/A	mg/m ³	N/A	ppm
NZ-STEL	: N/A	mg/m ³	N/A	ppm

Note: While no OELs have been set for this chemical in Australia and New Zealand, it should be noted that The European Committee on Occupational Exposure Limits have recommended an 8hr TWA of 10 ppm (67.5 mg/m³) and STEL of 15 ppm (101.2 mg/m³).

8.1.2 Sampling methods:

- Sulfites, & Sulfates NIOSH 6004

8.2 Exposure controls:

8.2.1 Occupational exposure controls:

- Measure the concentration in the air regularly
- Work under local exhaust/ventilation

Personal protective equipment:

a) Respiratory protection:

- Wear gas mask with filter type A if conc. in air > exposure limit

b) Hand protection:

- Gloves

Suitable materials: Butyl rubber

- Breakthrough time: N.D.

c) Eye protection:

- Safety glasses

d) Skin protection:

- Protective clothing

Suitable materials: Butyl rubber

8.2.2 Environmental exposure controls: see headings 6.2, 6.3 and 13

9. Physicochemical properties

9.1 General information:

Appearance (at 20°C)	: Liquid
Odour	: Mild
Colour	: Light yellow

9.2 Important health, safety and environmental information:

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pH value (at 100%)	: 7/8.5	
Boiling point/boiling range	: 100	°C
Flash point/flammability	: N.A.	°C
Explosion limits (explosive properties)	: N.D.	vol%
Oxidising properties	: N.D.	
Vapour pressure (at 20°C)	: 24	hPa
Vapour pressure (at 50°C)	: N.D.	hPa
Relative density (at 20°C)	: 1.01	
Water solubility	: COMPLETELY	
Soluble in	: No data available	
Relative vapour density	: 1	
Viscosity (at °C)	: <0.003	Pa.s (25°C)
Partition coefficient n-octanol/water	: N.D.	
Evaporation rate		
ratio to butyl acetate	: N.D.	
ratio to ether	: N.D.	

9.3 Other information:

Melting point/melting range	: 0	°C
Auto-ignition temperature	: N.D.	°C
Saturation concentration	: N.D.	g/m ³
Specific conductivity	: N.D.	pS/m

10. Stability and reactivity

10.1 Conditions to avoid:

- Stable under normal conditions

10.2 Materials to avoid:

- Keep away from: heat sources

10.3 Hazardous decomposition products:

- On burning: release of toxic and corrosive gases/vapours (nitrous vapours, sulphur oxides, carbon monoxide - carbon dioxide)

11. Toxicological information

11.1 Acute toxicity:

Whole Mixture:

Acute oral toxicity (rat): LD50 >5000 mg/kg

Acute dermal toxicity (Rabbit): LD50 > 2000 mg/kg

Acute primary dermal irritation (Rabbit): Non-irritating to slightly irritating.

Eye irritation (Rabbit): Moderately irritating

Ingredients:

2-(2-butoxyethoxy) ethanol

LD50 oral rat : 2410 mg/kg

LD50 dermal rabbit : 2764 mg/kg

11.2 Chronic toxicity:

No data available.

11.3 Routes of exposure:

ingestion, inhalation, eyes and skin

11.4 Acute effects/symptoms:

AFTER EYE CONTACT

- Redness of the eye tissue
- Irritation of the eye tissue

11.5 Chronic effects:

- No data available

12. Ecological information

12.1 Ecotoxicity:

- LC50 (96 h) : 22 mg/l (ONCORHYNCHUS MYKISS - RAINBOW TROUT)
- LC50 (96 h) : 75 mg/l (PIMEPHALES PROMELAS - FATHEAD MINNOW)
- EC50 (48 h) : 72 mg/l (DAPHNIA MAGNA)

- Effect on waste water purification : harmless to activated sludge at sufficient dilution

12.2 Mobility:

- Volatile organic compounds (VOC): 0%
- Soluble in water

For other physicochemical properties see heading 9

12.3 Persistence and degradability:

- biodegradation BODs : -
- water : - Readily biodegradable in water
- test: BOD 86%, 28d, OECD 301D
- soil : T^{1/2}: N.D.

12.4 Bioaccumulative potential:

- log P_{ow} : <3 (components)
- BCF : N.D.
- Slightly or not bioaccumulative (components)

12.5 Results of PBT assessment:

- Not applicable, based on available data

12.6 Other adverse effects:

- Effect on the ozone layer : Not dangerous for the ozone layer
- Greenhouse effect : No data available

13. Disposal considerations

13.1 Provisions relating to waste:

- Dispose according to the requirements of local waste disposal authority.

13.2 Disposal methods:

- 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.

13.3 Packaging/Container:

- Dispose according to the requirements of local waste disposal authority.

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14. Transport Information

14.1 IMDG (maritime transport)

CLASS	: Not subject
SUB RISKS	:
PACKING GROUP	:
MFAG	:
EMS	:
MARINE POLLUTANT	:

14.2 ICAO (air transport)

CLASS	: Not subject
SUB RISKS	:
PACKING GROUP	:
PACKING INSTRUCTIONS PASSENGER AIRCRAFT	:
PACKING INSTRUCTIONS CARGO AIRCRAFT	:

14.3 Australia ADG Code

CLASS	: Not subject
SUB RISKS	:
PACKING GROUP	:

14.4 New Zealand NZS 5433:2007

CLASS	: Not subject
SUB RISKS	:
PACKING GROUP	:

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15. Regulatory information

15.1 Australia

All components are listed on the Australian Inventory of Chemical Substances (AICS).

15.2 New Zealand

Approval: Fire Fighting Chemicals Group Standard 2006 (HSR002573).

NZIoC: All components are listed on the New Zealand Inventory of Chemical Substances

HSNO Classification: 6.4A Eye irritancy, 9.1D Ecotoxic.

16. Other information

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.