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MATERIAL SAFETY DATA SHEET

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This MSDS has been prepared by Solberg Asia Pacific Pty Ltd.

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:

SOLBERG FIRE-BRAKE™ 3150A CLASS A FIRE FIGHTING FOAM CONCENTRATE

SOLBERG PRODUCT ID: Fire-Brake™ 3150A 20L, Fire-Brake™ 3150A 200L,
Fire-Brake™ 3150A 1000L, Fire-Brake™ 3150A Bulk

RECOMMENDED USE: To extinguish bushfires/wildfire, paper, wood and structural fires.

2. HAZARDS IDENTIFICATION

NOTE: NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

POISONS SCHEDULE

NONE ALLOCATED

Risk Codes and Phrases

Not applicable

Safety Codes and Phrases

S24/25 Avoid contact with the skin and eyes.

S26 In case of contact with eyes, rinse immediately with plenty of
water and seek medical advice.

S28A After contact with skin, wash immediately with plenty of soap
and water.

3. COMPOSITION

Ingredient Name	CAS number	Percentage
WATER	7732-18-5	81.0 - 85.0
DIETHYLENE GLYCOL BUTYL ETHER	112-34-5	8.0 - 9.0
ALKYL SULFATE AMINE SALT +(6076P)	---	3.0 - 4.0
SODIUM ALKYL SULFATE +(6079P)	---	1.0 - 2.0
SURFACTANTS +(6082P, 6058P)	---	3.0 - 4.0
TOLYL TRIAZOLE	29385-43-1	< 0.5

4. FIRST AID MEASURES

EYE CONTACT

Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

SKIN CONTACT

Flush skin with large amounts of water. If irritation persists, contact a doctor.

INHALATION

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, seek medical attention.

IF SWALLOWED

If swallowed, give two glasses of water and contact a doctor or Poisons Information Centre. Do NOT induce vomiting.

5. FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA

Product is a fire-extinguishing agent.

FIRE FIGHTING PROCEDURES

Wear full protective clothing, including helmet, self-contained, positive pressure or positive pressure demand self-contained breathing apparatus, tunic and pants, bands around arms, waist and legs, full face-piece, and protective covering for exposed areas of the head.

COMBUSTION PRODUCTS FROM FIRE

Combustion Products from Fire are listed in Section 10, STABILITY AND REACTIVITY.

6. ACCIDENTAL RELEASE MEASURES (SPILL)

Personal Precautions

Observe precautions from other sections of this Material Safety Data Sheet.

Spill Response

Ventilate area with fresh air. Cover with absorbent material. Collect as much of the spilled material as possible. Clean up residue with water. Place in an approved metal container. Seal the container.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Keep container tightly closed when not in use. No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to the formation of the hazardous decomposition products mentioned in Section 10 of this MSDS.

Conditions for Safe Storage

Do not store containers on their sides. Store at room temperature.
Keep container closed when not in use.

Incompatibility - Materials to Avoid

None known.

EXPLOSION AVOIDANCE

Non flammable: ordinary combustibile material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Special Information, Exposure/Protection

The extent to which the following recommendations for exposure control and protection are observed should depend on the risk assessment undertaken for the specific conditions under which this product is used, including occupational hygiene measurements.

Recommended Ventilation

Provide sufficient ventilation to maintain emissions well below exposure standards. If exhaust ventilation is not available, use appropriate respiratory protection.

Eye Protection

Avoid eye contact with vapour, spray, or mist. During operations in which eye exposure is likely, the following should be worn alone, or in combination, as appropriate: Vented goggles. Full-face shield. Eye protection should comply with AS/NZS1337.

Hand Protection

During operations in which hand exposure is likely, wear appropriate gloves. Gloves made from one of the following material(s) are recommended: Butyl rubber.

Skin Protection

Avoid skin contact.

Respiratory Protection

Avoid breathing vapours, mists or spray.

Prevention of Accidental Ingestion

As a precaution against accidental ingestion, wash hands after handling and before eating. Do not ingest.

9. PHYSICAL/CHEMICAL PROPERTIES

Appearance and Odour	Clear, light yellow liquid
pH	7 -9
Vapour pressure	118 mmHg @ 55C
Vapour density	1 (Air=1)
Boiling point	100 C (Typical)
Melting point	Not applicable
Water Solubility	Complete
Specific gravity	Approx.1 (Water=1)
Flash point	None
Flammable Limits - LEL	Not applicable
Flammable Limits - UEL	Not applicable
Autoignition temperature	Not applicable
Volatile organic compounds (VOC) content	95 g/L (g/L of material)
Evaporation rate	Not determined
Viscosity	Not determined

10. STABILITY AND REACTIVITY

Stability

Stable. Hazardous polymerisation will not occur.

Materials to Avoid

Not applicable

Hazardous Decomposition Products

Carbon Monoxide, Carbon Dioxide. Oxides of Sulfur. Hydrogen Chloride.
Amine Compounds.

11. TOXICOLOGICAL INFORMATION

Effects from Eye Contact

Moderate Eye irritation: Signs/symptoms can include redness, swelling, pain, tearing and blurred or hazy vision.

Effects from Skin Contact

May cause mild skin irritation (more likely after prolonged or repeated contact). Signs/symptoms can include redness, swelling and itching. May be absorbed through the skin and produce effects similiar to those caused by inhalation and/or ingestion.

Effects from Inhalation

Inhalation may cause: Upper Respiratory Tract Irritation:

Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Effects from Ingestion

Ingestion is unlikely to be a route of exposure. Ingestion may cause:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting.

Other Toxicological Information

A Solberg Product Toxicity Summary Sheet is available.

12. ECOLOGICAL INFORMATION

Environmental Data

Not determined

13. DISPOSAL CONSIDERATIONS

Disposal methods

Slowly discharge spent solutions and small quantities (less than 20L) to a wastewater treatment system. Reduce discharge rate if foaming occurs. Large quantities can be treated by a waste water treatment system if added slowly over several days (or longer). Alternatively, incinerate large quantities in an industrial or commercial incinerator.

14. TRANSPORT INFORMATION

ADG (Road/Rail)

UN NUMBER	NONE ALLOCATED
PROPER SHIPPING NAME	NONE ALLOCATED
DANGEROUS GOODS CLASS	NONE ALLOCATED
SUBSIDIARY RISK	NONE ALLOCATED
PACKING GROUP	NONE ALLOCATED

IATA (Airfreight)

UN NUMBER	NONE ALLOCATED
PROPER SHIPPING NAME	NONE ALLOCATED
DANGEROUS GOODS CLASS	NONE ALLOCATED
SUBSIDIARY RISK	NONE ALLOCATED
PACKING GROUP	NONE ALLOCATED

IMO (Seafreight)

UN NUMBER	NONE ALLOCATED
PROPER SHIPPING NAME	NONE ALLOCATED
DANGEROUS GOODS CLASS	NONE ALLOCATED
SUBSIDIARY RISK	NONE ALLOCATED
PACKING GROUP	NONE ALLOCATED

15 REGULATORY INFORMATION

Product Certifications

AICS - Yes: components checked

16. OTHER INFORMATION

REASON FOR REISSUE

To establish MSDS in Australian format.

The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet, which involves using the product, or otherwise that in accordance with instructions of use on product packaging is the responsibility of the user. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the Technical Manager on (02) 9673-5300.