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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 REHEALING(TM) RF3 3% FIREFIGHTING FOAM CONCENTRATE

SOLBERG PRODUCT ID: REHEALING™ FOAM RF3 20L, REHEALING™ FOAM RF3 200L,
REHEALING™ FOAM RF3 1000L

RECOMMENDED USE: Fire fighting foam
For industrial or professional use only.

2 HAZARDS IDENTIFICATION

NOTE: HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

POISONS SCHEDULE Not applicable.

Symbols
Xi (Irritant)

Risk Codes and Phrases

**SOLBERG REHEALING FOAM RF3 (3%) CLASS B FIREFIGHTING FOAM
CONCENTRATE**

R36 Irritating to eyes.

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.
S28B After contact with skin, wash immediately with plenty of water.
S39A Wear eye protection.

3 COMPOSITION

Ingredient Name	CAS number	Percentage
WATER	7732-18-5	< 75
EMULSIFIERS (TRADE SECRET)	---	8 - 12
DIETHYLENE GLYCOL BUTYL ETHER	112-34-5	5 - 10
THICKENING AGENTS	50-99-7	< 8
SURFACTANTS (TRADE SECRET)	---	< 5

4 FIRST AID MEASURES

EYE CONTACT

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

SKIN CONTACT

Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

INHALATION

Remove person to fresh air. If signs/symptoms develop, get medical attention.

IF SWALLOWED

Do not induce vomiting. Get immediate medical attention. Give person two glasses of water. Never give anything by mouth to an unconscious person.

5 FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA

Product is a fire-extinguishing agent. Non flammable.

EXPOSURE HAZARDS DURING FIRE

Material will not burn.

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 facepiece, 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. Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible. Clean up residue with water. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

7 HANDLING AND STORAGE

Precautions for Safe Handling

Keep container tightly closed when not in use. For industrial or professional use only.

Conditions for Safe Storage

Refer to Incompatibility - Materials to Avoid.

Incompatibility - Materials to Avoid

None known.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

COMMENT

No National Exposure Standards have been set for any of the ingredients of this product.

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

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapour, or spray. If ventilation is not adequate, use respiratory protection equipment.

Eye Protection

Avoid eye contact. 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: Indirect Vented goggles. Select and use eye protection in accordance with AS/NZS 1336. Eye protection should comply with the performance specifications of AS/NZS 1337.

Hand Protection

Gloves made from one of the following material(s) are recommended (Australian Standard AS/NZS 2161): Neoprene. Nitrile rubber.

Skin Protection

Avoid prolonged or repeated skin contact.

Respiratory Protection

Avoid breathing vapours or spray. Avoid breathing vapours of

foam concentrate in confined spaces or during large spill cleanup. Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations: Half facepiece or fullface air-purifying respirator with GP1 filters. Select and use respirators according to AS/NZS 1715. Respirators should comply with AS/NZS 1716 performance Specifications.

Prevention of Accidental Ingestion

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

9 PHYSICAL/CHEMICAL PROPERTIES

Appearance and Odour	Amber to dark brown liquid
pH	6 - 8
Boiling point	100 C
Melting point	Not applicable
Flash point	Not applicable
Autoignition temperature	Not applicable
Vapour pressure	18 mmHg @ 20C
Water Solubility	100 %
Specific gravity	1.09
Vapour density	Not applicable
Evaporation rate	Approx. 1 (Water=1)
Viscosity	4,200 - 5,000 centipoise
Flammable Limits - LEL	Not applicable
Flammable Limits - UEL	Not applicable
Percent Volatile	83 %

10 STABILITY AND REACTIVITY

Stability

Hazardous polymerisation will not occur. Stable.

Materials to Avoid

None known.

Hazardous Decomposition Products

Oxides of Nitrogen.
Toxic Vapours, Gases or Particles.
Carbon Monoxide.
Carbon Dioxide.

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

Moderate Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

Effects from Inhalation

May be absorbed following inhalation and cause target organ effects. Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Effects from Ingestion

May be absorbed following ingestion and cause target organ effects. Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhoea and vomiting.

Other Toxicological Information

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, uncoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

Prolonged or repeated exposure may cause:

Liver Effects: Signs/symptoms may include loss of appetite,

weight loss, fatigue, weakness, abdominal tenderness and jaundice.
Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

12 ECOLOGICAL INFORMATION

See Product Environmental Data Sheet for this product.

13 DISPOSAL CONSIDERATIONS

Product as Sold
Discharge small quantities of less than 20 litres to a municipal or industrial waste water treatment system. Reduce discharge rate if foaming occurs. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

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)

**SOLBERG REHEALING FOAM RF3 (3%) CLASS B FIREFIGHTING FOAM
CONCENTRATE**

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

16 OTHER INFORMATION

REASON FOR REISSUE
Update hazard information.

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