

# **PRODUCT NAME:** SOLBERG ARCTIC FOAM 603F ATC<sup>™</sup> 3% x 3%

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Manufacturer Name SOLBERG SCANDINAVIAN AS, Olsvollstranda, N-5938 Saebovagen NORWAY

Importer Name WORMALD NZ LTD

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Synonym(s) SOLBERG ARCTIC FOAM 603F ATC 3%-3%

Use(s) FIRE EXTINGUISHING AGENT • FIRE FIGHTING

**SDS Date** 05 Feb 2009

# 2. HAZARDS IDENTIFICATION

#### CLASSIFIED AS HAZARDOUS ACCORDING TO HAZARDOUS SUBSTANCES (CLASSIFICATION) REGULATIONS 2001

#### **HAZARD CLASSIFICATION**

6.9B Substances that are harmful to human target organs or systems

#### **HAZARD STATEMENTS**

H361 May cause damage to primary organs through prolonged or repeated exposure

#### **PRECAUTIONARY STATEMENTS**

P103 Read label before use. Read Safety Data Sheet before use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product

P309 + P311 If exposed or if you feel unwell get medical advice/attention or call a POISON CENTER.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS No.	Content
DIETHYLENE GLYCOL MONOBUTYL ETHER	112-34-5	<20%
WATER	7732-18-5	65-70%
SEVERAL OTHER HAZARDOUS INGREDIENTS WITH CLASSIFICATIONS EQUAL TO OR LESS THAN DIETHYLENE GLYCOL MONOBUTYL ETHER	Not Available	>25%

#### 4. FIRST AID MEASURES

Eye If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop

by the Poison Information Centre or a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. To protect rescuer, use an Air-line respirator where an inhalation risk

exists. Apply artificial respiration if not breathing.

**Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue

flushing with water until advised to stop by the Poisons Information Centre or a doctor.

**Ingestion** For advice, contact a Poisons Information Centre or a doctor (at once). If swallowed, do not induce vomiting.

Medical Advice Treat symptomatically.

# 5. FIRE FIGHTING MEASURES

Flammability Non flammable. May evolve toxic gases (hydrocarbons, carbon oxides) when heated to decomposition.

Fire and Non flammable. Not Explosive.

**Explosion** 

**Extinguishing** Extinguishing agent.

Hazchem Code None allocated.

#### 6. ACCIDENTAL RELEASE MEASURES

Spillage If spilt, absorb with sand or similar. Wear splash-proof goggles, PVC/rubber gloves, coveralls and rubber boots.

Collect and place in sealable containers for disposal. Caution: Spill site may be slippery.

# 7. STORAGE AND HANDLING

Storage Store in a cool dry area. Also store removed from reactive metals, electrically energised equipment and any material

reactive with water.

Handling Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact

and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and

smoking in contaminated areas.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Exposure Stds**

Ingredient	Reference	TWA		STEL	
		ppm	mg/m3	ppm	mg/m3
Diethylene Glycol Monobutyl Ether	OSH (NZ)	10.0	67.5	15.0	101.2

Engineering Controls

Do not inhale vapours/fumes. When handling this product, maintain adequate natural ventilation where practicable. Contact emergency personnel.

PPE

Wear splash-proof goggles and rubber or PVC gloves. When using large quantities or where heavy contamination is likely, wear coveralls. Where an inhalation risk exists, wear a Type A-Class P1 (Organic gases/vapours and Particulate) Respirator.

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance LIGHT YELLOW LIQUID Solubility (water) SOLUBLE

Odour PLEASANT Specific Gravity NOT AVAILABLE

pH 7.0 to 8.5 % Volatiles NOT AVAILABLE

 Vapour Pressure NOT AVAILABLE
 Flammability NON FLAMMABLE

 Vapour Density NOT AVAILABLE
 Flash Point NOT RELEVANT

Boiling Point 100°C Upper Explosion Limit NOT RELEVANT

Melting Point NOT AVAILABLE Lower Explosion Limit NOT RELEVANT

Evaporation Rate NOT AVAILABLE Autoignition Temperature NOT DETERMINED

Density 1.1 Viscosity NOT DETERMINED

#### 10. STABILITY AND REACTIVITY

**Stability** Stable under recommended conditions of storage

.Conditions Avoid to No known conditions to avoid.

Material to Avoid Incompatible with oxidising agents (eg. hypochlorites, peroxides) and acids (eg. sulphuric acid). Also incompatible

with reactive metals (eg. potassium), electrically energised equipment and any material reactive with water.

**Decomposition** May evolve toxic gases (hydrocarbons, carbon oxides) when heated to decomposition.

**Polymerization** Polymerization will not occur.

# 11. TOXICOLOGICAL INFORMATION

**Health Hazard** Low toxicity. This product has the potential to cause adverse acute and chronic health effects with over

**Summary** exposure, however given product dilution in end use and application over exposure is not anticipated with normal use.

Chronic over exposure to some glycols may result in kidney, liver and nerve damage.

**Eye Irritant.** Contact may result in irritation, lacrimation, pain and redness.

**Inhalation** Low. Over exposure at high levels may result in mucous membrane irritation of the nose and throat with coughing.

Under extreme temperatures in a fire situation toxic by-products associated with this extinguishing agent and

surrounding materials may also be generated.

**Skin** Prolonged or repeated contact may result in mild irritation, rash and dermatitis.

**Ingestion** Low toxicity. Ingestion may result in gastrointestinal irritation, nausea, vomiting, headache, abdominal pain and

diarrhoea. However, due to product form ingestion is considered unlikely. Maintain good personal hygiene standards.

#### **Toxicity Data**

DIETHYLENE GLYCOL MONOBUTYL ETHER (112-34-5) LD50 (Ingestion): 2000 mg/kg (guinea pig) LD50 (Skin): 2700 mg/kg (rabbit)

# 12. ECOLOGICAL INFORMATION

**Environment** Limited ecotoxicity data was available for this product at the time this report was prepared. Ensure appropriate measures are taken to prevent this product from entering the environment.

**Ecotoxicity** Diethylene glycol monobutyl ether: Fish LC50 (96hrs) = 1,300 mg/L (Lepomis marcrochinus); LC50 (24hrs) = 2,700 mg/L (Carrassius auratus).

**Persistence** Diethylene glycol monobutyl ether: Indirect photodegradation is about 50% in 3.5 hours. Aerobic degradation with

**Degradability** Adapted sludge is 60% after 28 days. COD = 2080 mg/g substance. BOD5 = 250 mg O2/g substance. Theoretical oxygen demand = 2.17 mg/mg. Should not bioaccumulate - estimated bioaccumulation factor (log BCF) = 0.46.

**Mobility** Diethylene glycol monobutyl ether: Should not partition from a water column to organic matter contained in sediments and suspended solids.

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## 13. DISPOSAL CONSIDERATIONS

Waste Disposal Export the substance from New Zealand as waste; or Treat the substance so that it is no longer a hazardous

substance: or Discharge the substance into the environment so that, after reasonable mixing, the concentration of the substance in an environmental medium does not exceed any relevant tolerable exposure limit and/or environmental

exposure limit set for the substance or any of its components.

**Legislation** Dispose of in accordance with relevant local legislation.

# 14. TRANSPORT INFORMATION

#### NOT CLASSIFIED AS A DANGEROUS GOOD ACCORDING TO LAND TRANSPORT RULE: DANGEROUS GOODS 2005

#### NZS 5433:2007, UN, IMDG OR IATA

Shipping Name None Allocated

UN No.None AllocatedDG ClassNone AllocatedSubsidiary Risk(s)None AllocatedPkg GroupNone AllocatedHazchem Code None AllocatedEPGNone Allocated

## 15. REGULATORY INFORMATION

Approval Code HSR002573

Group Name Fire Fighting Chemicals Group Standard 2006

HSNO Controls Refer to the ERMA website for more information: www.ermanz.govt.nz

#### 16. OTHER INFORMATION

# Additional Information

# **ABBREVIATIONS:**

ADB - Air-Dry Basis. BEI - Biological Exposure Indice(s) CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds. CNS - Central Nervous System. EINECS - European INventory of Existing Commercial chemical Substances. IARC - International Agency for Research on Cancer. M - moles per litre, a unit of concentration. mg/m3 - Milligrams per cubic metre. NOS - Not Otherwise Specified. NTP - National Toxicology Program. OSHA - Occupational Safety and Health Administration. pH - relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). ppm - Parts Per Million. RTECS - Registry of Toxic Effects of Chemical Substances. TWA/ES - Time Weighted Average or Exposure Standard.

## HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a SDS report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

#### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this SDS is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

# **Report Status**

This document has been compiled by the retailer of the product and serves as the retailers Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to the retailer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the retailer.

While Tyco has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any

warranty as to accuracy or completeness. As far as lawfully possible, Tyco accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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**Prepared By** 

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**HSNO Adviser** 

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Reviewed by Responsible Care 21 August 2013

**End of Report** 

