SAFETY DATA SHEET

REVISED EDITION NO: **4**
DATE: **31 / 07 / 2019**
SUPERSEDES: **11 / 08 / 2017**

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SECTION 1 - IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

PRODUCT IDENTIFIER:

EL303SG

OTHER MEANS OF IDENTIFICATION:

ORCHIDEX AFFF 3% SG

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

Relevant identified uses: extinguishing agent

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

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PREPARED IN ACCORDANCE WITH THE NATIONAL CODE OF PRACTICE FOR THE PREPARATION OF MATERIAL SAFETY DATA SHEETS 2ND EDITION [NOHSC:2011(2003)]

SECTION 2 - HAZARD(S) IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

Classification according to the the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Classidied as dangerous - Serious Eye Damage / Irritation - Category 2A

Classification according to the the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th Edition)

Not classified

LABEL ELEMENTS:

Hazard pictograms	
Pictogram name	GHS07 Exclamation Mark
Signal word	**WARNING**
Hazard statements	
Physical Hazards	
Health Hazards	**H319** Causes serious eye irritation
Environmental Hazards	
Combinations	
Precautionary statements	
General	
Prevention	**P264** Wash hands thoroughly after handling. **P280** Wear protective gloves/protective clothing/eye protection/face protection
Response	**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. **P337+P313** If eye irritation persists: Get medical advice/attention.

SPECIAL LABELLING OF CERTAIN MIXTURES:

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

OTHER HAZARDS:

Within expanded foam respiration is not possible, danger of suffocation!

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCES

This product is a mixture.

HAZARDOUS COMPONENTS

Ingredient (Designation)	CAS No.	EC No.	Quantity
Alcohols, C6-12, ethoxylated, sulfate, sodium salt	161025-28-1	500-485-3	1 - < 5%
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	112-34-5	203-961-6	1 - < 5%
Sodium Octyl Sulfate	142-31-4	205-535-5	1 - < 5%
1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	2634-33-5	220-120-9	<0.1%

FURTHER INFORMATION

There are no additional ingredients present which, within our current knowledge and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section

SECTION 4: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:

General information

Not available

After inhalation

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible). Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure.

After skin contact

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, seek medical treatment.

After eye contact

Immediately flush eyes with large amounts of water. Get immediate medical attention.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE, DELAYED AND AGGREVATED

Irritation and etching

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

SECTION 5: FIREFIGHTING MEASURES

EXTINGUISHING MEDIA

This is an extinguishing agent.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

At high temperature : concentrate gives toxic products. Thermal decomposition of usage concentrations does not present a hazard.

ADVICE FOR FIREFIGHTERS

Avoid contact with water reactive materials, burning metals and electrically energized equipment.

HAZCHEM CODE

No Hazchem Code issued to these articles. No HIN issued under RID and ADR.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Wear personal protection equipment. Use appropriate respiratory protection.

ENVIRONMENTAL PRECAUTIONS

Do not empty into drains or the aquatic environment.

Clean contaminated objects and areas thoroughly observing environmental regulations.

Treat the assimilated material according to the section on waste disposal.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Soak up inert absorbent and dispose as waste requiring special observation.

Use approved industrial vacuum cleaner for removal.

Collect in closed containers for disposal.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Advice on safe handling:

Keep container tightly closed and in a well-ventilated place.

Fire prevention measures:

No special fire protection measures are necessary.

Advices on general occupational hygiene:

When using do not eat, drink, smoke, sniff.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Technical measures and storage conditions:

Store at temperatures above -1°C and below 50°C.

Requirements for storage rooms and containers:

Keep only in the original container in a cool, well-ventilated place.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

BIOLOGICAL MONITORING

Exposure limits (EH40)						
CAS No	**Substance**	**ppm**	**mg/m³**	**fibres/ml**	**Category**	**Origin**
112-34-5	2-(2-Butoxyethoxy) ethanol	10 15	67.5 101.2		TWA (8h) STEL (15min)	WEL WEL

*TWA: Time weighted average

**STEL: Short term exposure limit

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION (CONTINUED)

Appropriate engineering controls:

If technical suction or ventilation measures are not possible or are insufficient , protective breathing apparatus must be worn.

Protective and hygiene measures:

Avoid contact with skin, eye and clothing. When handling chemical substances, chemical protective gloves must be worn with CE label including a four digit code. Do not eat, drink, smoke or sneeze at the workplace.

Eye/face protection

Avoid eye contact with vapour, spray, or mist. Wear vented goggles.

Hand protection

Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: Butyl rubber.

Skin protection

Avoid skin contact

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance **- Physical state:** **- Colour:**	 Liquid Clear coloured
Odour:	no information available
Odour threshold:	no information available
pH:	7.0-8.5 (at 20°C)
Melting point (°C):	-4
Boiling point (°C):	100
Molar mass:	no information available
Critical temperature (°C):	no information available
Flash point (°C):	no information available
Evaporation rate (ether=1):	no information available
Flammability range (vol% in air):	Non flammable.
Vapour pressure (at 20°C):	no information available
Density (at 20°C):	1.02 g/cm³
Relative density, gas (air=1):	no information available
Relative density, liquid (water =1):	no information available
Solubility in water:	highly soluble
Partition coefficient n-octanol/water:	no information available
Viscosity at 20°C (mPa.s):	>20
Explosive properties:	Not explosive.
Molecular weight:	no information available

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)

Other information:	No sustaining combustion 0.60% solvent content 9.10% solid content

SECTION 10 - STABILITY AND REACTIVITY

REACTIVITY

none

CHEMICAL STABILITY

The study does not need to be conducted because the substance is known to be soluble in water to form a stable mixture.

POSSIBILITY OF HAZARDOUS REACTIONS

none

CONDITIONS TO AVOID

none

INCOMPATIBLE MATERIALS

Materials to avoid:

none

HAZARDOUS DECOMPOSITION PRODUCTS

none

SECTION 11 - TOXILOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL TESTS

Acute toxicity						
CAS No	**Chemical name**	**Exposure routes**	**Method**	**Dose**	**Species**	**Source**
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	Oral Dermal	LD50 LD50	5660mg/kg 4120mg/kg	Rat Rabbit	
2634-33-5	1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one	Oral	ATE	500 mg/kg		

Skin corrosion/irritation:	No information available
Serious eye damage/irritation: No information available	No information available
Respiratory or skin sensitisation:	No information available
Germ cell mutagenicity:	No information available
Carcinogenicity:	No information available
Reproductive toxicity:	No information available
Specific Target Organ Toxicity – single exposure:	No information available
Specific Target Organ Toxicity – repeated exposure:	No information available
Aspiration hazard:	No information available

INFORMATION ON POSSIBLE ROUTES OF EXPOSURE

Eye contact:	No information available
Skin contact:	No information available
Inhalation:	No information available
Ingestion:	No information available
Acute overexposure:	No information available
Chronic overexposure:	No information available

EARLY ONSET SYMPTOMS RELATING TO EXPOSURE

No information available

DELAYED HEALTH EFFECTS FROM EXPOSURE

No information available

EXPOSURE LEVELS AND HEALTH EFFECTS

No information available

INTERACTIVE EFFECTS

No information available

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity							
CAS No	**Chemical name**	**Aquatic toxicity**	**Method**	**Dose**	**Duration**	**Species**	**Source**
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	Acute algae toxicity Acute crustacea toxicity	ErC50 ErC50	> 100mg/l > 100mg/l	48h	Scenedesmus sp. Daphnia magna	

PERSISTENCE AND DEGRADABILITY

Product has not been tested.

BIOACCUMULATIVE POTENTIAL

Product has not been tested.

Partition coefficient n-octanol/water		
CAS No	**Chemical name**	**Log Pow**
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene	0,56 (25°C)

MOBILITY IN SOIL

product has not been tested.

OTHER ADVERSE EFFECTS

product has not been tested.

FURTHER INFORMATION

Depending on local conditions and existing concentrations, in the case of discharge into biological sewage treatment plants, problems in the decomposition activity of activated sludge are possible.

SECTION 13 - DISPOSABLE CONSIDERATIONS

DISPOSABLE METHODS

Dispose of in compliance with local, state and Commonwealth regulations.

PHYSICAL/CHEMICAL PROPERTIES THAT MAY AFFECT DISPOSAL OPTIONS

Not determined

EFFECTS OF SEWAGE DISPOSAL

Not determined

SPECIAL PRECAUTIONS FOR INCINERATION OR LANDFILL

Not determined

SECTION 14 - TRANSPORT INFORMATION

Land transport (ADR/RID)

Not classified for this carrier.

Marine transport (IMDG)

Not classified for this carrier.

Air transport (ICAO)

Not classified for this carrier.

SECTION 15 - REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE

EU regulatory information

2010/75/EU (VOC): .617 % (6.293 g/l)

2004/42/EC (VOC): 2.623 % (26.753 g/l)

Water contaminating class (D): 1 - slightly water contaminating

CHEMICAL ASSESSMENT

For this mixture a chemical safety assessment has been carried out.

SECTION 16 - OTHER INFORMATION

KEY LITERATURE REFERENCES AND SOURCES

Classification in accordance with calculation methods of regulation (EC) 1272/2008 CLP / (EC) 1999/45 DPD.

Classification in accordance with the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)].

This Safety Data Sheet where necessary has been established in accordance with the applicable European Union legislation.

Standard for the Uniform Scheduling of Medicines and Poisons. (SUSMP)

Australian Inventory of Chemical Substances (AICS)

Australian Code for the Transport of Dangerous Goods by Road & Rail (2015, 7th Edition, 7.4)

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Workplace exposure standards for airborne contaminants, Safe work Australia.

International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

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SECTION 16 - OTHER INFORMATION (CONTINUED)

Please refer to our internet website for more information: www.flamestop.com.au
SDS sheets are available to download in the downloads section of our website.
For contact information please go to page 1 of this SDS.

END OF SDS.