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SAFETY DATA SHEET

Atlantis Fire & Safety Services
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SECTION 1 - IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

PRODUCT IDENTIFIER:

EL303UL

OTHER MEANS OF IDENTIFICATION:

ORCHIDEX AFFF 3% UL.
EF320 ORCHIDEE 3% AFFF FOAM CONCENTRATE 20L DRUM
EK3200 ORCHIDEE 3% AFFF FOAM CONCENTRATE 200L DRUM

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:

Supplier: Atlantis Fire & Safety Services
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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

Classified as dangerous - Serious Eye Damage / Irritation - Category 1

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	GHS05 Corrosive
Signal word	DANGER
Hazard statements	
Physical Hazards	
Health Hazards	H318 Causes serious eye damage
Environmental Hazards	
Combinations	
Precautionary statements	
General	
Prevention	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. P310 Immediately call a POISON CENTRE/doctor.

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	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Alcohols, C6-12, ethoxylated, sulfate, sodium salt	161025-28-1	500-485-3	1 - < 5%	Skin Irrit. 2, Eye Dam. 1	H315, H318
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	112-34-5	203-961-6	1 - < 5%	Eye Irrit. 2	H319
Sodium Octyl Sulfate	142-31-4	205-535-5	1 - < 5%	Skin Irrit. 2, Eye Dam. 1	H315, H318

Code Description

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

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

In case of contact with eyes, rinse immediately with plenty of edible oil and seek medical advice.

After ingestion

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

SECTION 4: FIRST AID MEASURES (CONTINUED)

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

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

Product itself 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.

SECTION 7 - HANDLING AND STORAGE (CONTINUED)

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Requirements for storage rooms and vessels

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

Advice on storage compatibility

Maximum storage temperature: 50°C

Minimum storage temperature: -3°C

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONTROL PARAMETERS

Exposure limits (EH40)						
CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
112-34-5	2-(2-Butoxyethoxy) ethanol	10	67.5		*TWA (8h)	WEL
		15	101.2		**STEL (15min)	WEL

*TWA: Time weighted average

**STEL: Short term exposure limit

EXPOSURE CONTROLS

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 Amber
Odour:	no information available
Odour threshold:	no information available
pH:	6.0-9.5 (at 20°C)

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)

Melting point (°C):	-5
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 + 0.02 g/cm ³
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):	298
Explosive properties:	Not explosive.
Molecular weight:	no information available
Other information:	No sustaining combustion .81% solvent content 9.02% 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 - TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

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	

Skin corrosion/irritation: No information available

Serious eye damage/irritation: 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 glycol monobutyl ether	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 OR MIXTURE

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

AICS (Australia)

All components except Alcohols, C6-12, ethoxylated, sulfate, sodium salt (CAS No. 161025-28-1) of this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempted

EU regulatory information

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

2004/42/EC (VOC): 2.625 % (26.744 g/l)

Water contaminating class (D): 2 - 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.

DISCLAIMER

The information is based on the best knowledge of Atlantis Fire & Safety Services and its advisors and is given in good faith, but we cannot guarantee its accuracy, reliability or completeness and therefore disclaim any liability for loss or damage arising out of use of this data. Since conditions of use are outside the control of the Company and its advisors we disclaim any liability for loss or damage when the product is used for purposes other than it is intended.

SECTION 16 - OTHER INFORMATION

For contact information please go to page 1 of this SDS.

END OF SDS.

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