FlameStop

SAFETY DATA SHEET

REVISED EDITION NO: **2**
DATE: **11 / 04 / 2022**
SUPERSEDES: **18 / 01 / 2017**

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SECTION 1 - IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

PRODUCT IDENTIFIER:

ORCHIDEX A

OTHER MEANS OF IDENTIFICATION:

EFCA20 ORCHIDEX A FLUORINE FREE FOAM CONCENTRATE 20L DRUM
EFCA200 ORCHIDEX A FLUORINE FREE FOAM CONCENTRATE 200L DRUM
EFCA1000 ORCHIDEX A FLUORINE FREE FOAM CONCENTRATE 1000L 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:	FlameStop
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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 (EC) No. 1272/2008

Acute toxicity: Acute Tox. 4
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Dam. 1
Hazardous to the aquatic environment: Aquatic Chronic 3

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

Not classified

Hazard pictograms	
Pictogram name	GHS07: Harmful, GHS05: Corrosive
Signal word	**DANGER**
Hazard components for labelling	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl etherSodium decyl Sulfateethanediol, ethylene glycol1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one
Hazard statements	
Physical Hazards	
Health Hazards	**H302+H332** Harmful if swallowed or if inhaled **H315** Causes skin irritation **H318** Causes serious eye damage
Environmental Hazards	**H412** Harmful to aquatic life with long lasting effects
Combinations	
Precautionary statements	
General	
Prevention	**P261**Avoid breathing dust/fume/gas/mist/vapours/spray. **P264** Wash hands thoroughly after handling. **P270** Do not eat, drink or smoke when using this product. **P271** Use only outdoors or in a well-ventilated area. **P273** Avoid release to the environment. **P280** Wear protective gloves/protective clothing/eye protection/face protection.

Response	**PP301+P312** IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. **P330** Rinse mouth. **P302+P352** IF ON SKIN: Wash with plenty of water. **P332+P313** If skin irritation occurs: Get medical advice/attention. **P362+P364** Take off contaminated clothing and wash it before reuse**.** **P304+P340** IF INHALED: Remove person to fresh air and keep comfortable for breathing. **P312** Call a POISON CENTER/doctor if you feel unwell. **P305+P351+P338IF 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 CENTER/doctor.

SPECIAL LABELLING OF CERTAIN MIXTURES

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

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCES

This product is a mixture.

HAZARDOUS COMPONENTS

Chemical name	EC No.	Quantity
Water purified	231-791-2	15-25 %
2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether	203-905-0	30 - < 35%
sodium 2-(2-dodecyloxyethoxy)ethyl sulphate	221-416-0	5 - < 10%
Sodium Decyl Sulfate	205-568-5	5 - < 10%
ethanediol, ethylene glycol	203-473-3	5 - < 10%
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	203-961-6	5 - < 10%
Dodecanol -1	203-982-0	1 - < 5%
Tetradecan-1-ol	204-000-3	1 - < 5%

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:

After inhalation

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible). “If signs or symptoms occur, remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.”

After skin contact

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

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 unwellness, seek medical advice immediately (show directions for use or 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 allow to enter into surface water or drains.
Clean contaminated objects and areas thoroughly observing environmental regulations. Treat the recovered material as prescribed in 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

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: -12°C

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONTROL PARAMETERS

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
111-76-2	2-Butoxyethanol	25 50	123 246		*TWA (8h) **STEL (15min)	WEL WEL
107-21-1	Ethane-1,2-diol, vapour	20 40	52 104		*TWA (8h) **STEL (15min)	WEL WEL

*TWA: Time weighted average

**STEL: Short term exposure limit

BIOLOGICAL MONITORING GUIDANCE VALUES (EH40)

Exposure limits (EH40)					
CAS No	**Substance**	**Parameter**	**Value**	**Test material**	**Sampling time**
111-76-2	2-Butoxyethanol	butoxyacetic acid	240 mmol/mol	urine	Post shift

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION (CONTINUED)

EXPOSURE CONTROLS

Appropriate engineering controls:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Protective and hygiene measures:

Avoid contact with skin, eye and clothing. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. When using do not eat, drink, smoke, sniff.

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

Work in well-ventilated zones or use proper respiratory protection.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance **- Physical state:** **- Colour:**	 Liquid Blue
Odour:	no information available
Odour threshold:	no information available
pH (at 20°C)**:**	6.0-9.5
Melting point (°C):	-15
Boiling point (°C):	100
Viscosity / dynamic (at 20°C)	<20 mPa·s
Sustaining combustion	no sustaining combustion
Water solubility	Very soluble
Molar mass:	no information available
Critical temperature (°C):	no information available
Flash point (°C):	ca. 100 - 110 °C
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):	1.08 + 0.02 g/cm³

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Partition coefficient n-octanol/water:	no information available
Explosive properties:	Not explosive.
Molecular weight:	no information available
Other information:	35% solvent content 18.05% 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 EFFECTS

Acute toxicity

Harmful if swallowed or if inhaled.

ATEmix calculated

TE (oral) 1157.0 mg/kg; ATE (inhalative aerosol) 5.000 mg/l

SECTION 11 - TOXILOGICAL INFORMATION (CONTINUED)

CAS No	Chemical name	Exposure routes	Method	Dose	Species	Source
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether	Oral Dermal Inhalative Vapour Inhalative Aerosol	LD50 ATE ATE ATE	470mg/kg 1100mg/kg 11mg/l 1.5mg/l	Rat	
142-87-0	Sodium decyl Sulfate	Oral	ATE	500mg/kg		
107-21-1	ethanediol, ethylene glycol	Oral Dermal	ATE LD50	500mg/kg 10600mg/kg	Rabbit	GESTIS
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	Oral Dermal	LD50 LD50	5660 mg/kg 4120 mg/kg	Rat Rabbit	

Skin corrosion/irritation:	Causes skin irritation.
Serious eye damage/irritation:	Causes serious eye damage.
Respiratory or skin sensitisation:	Based on available data, the classification criteria are not met.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive toxicity:	Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity – single exposure:	Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity – repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

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	
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether	Acute fish toxicity	LC50	1490 mg/l	96h	Lepomis macrochirus	

PERSISTENCE AND DEGRADABILITY

There are no data available on the mixture itself.

BIOACCUMULATIVE POTENTIAL

There are no data available on the mixture itself.

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)
111-76-2	2-butoxyethanol, butyl cellosolve, ethylene glycol monobutyl ether	0,81 (25°C)
107-21-1	ethanediol, ethylene glycol	-1,36

MOBILITY IN SOIL

There are no data available on the mixture itself.

OTHER ADVERSE EFFECTS

There are no data available on the mixture itself.

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

Waste disposal according to official state regulations. Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions

PHYSICAL/CHEMICAL PROPERTIES THAT MAY AFFECT DISPOSAL OPTIONS

Not determined

SECTION 13 - DISPOSABLE CONSIDERATIONS (CONTINUED)

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.

EU regulatory information

Restrictions on use (REACH, annex XVII):
Entry 55: 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether
2010/75/EU (VOC): 30%

2004/42/EC (VOC): 40%

National regulatory information

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.

SECTION 16 - OTHER INFORMATION (CONTINUED)

DISCLAIMER

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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.