FlameStop

SAFETY DATA SHEET

REVISED EDITION NO: **3**
DATE: **18 / 12 / 2022**
SUPERSEDES: **17 / 08 / 2017**

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SECTION 1 - IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

PRODUCT IDENTIFIER:

ORCHIDEX ARC 3X6 UL

OTHER MEANS OF IDENTIFICATION:

FLAMESTOP 6% AR FOAM, ATC, AR-AFFF FOAM

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

Use of substance / mixture: fire 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 Regulation (EC) No. 1272/2008:

Classified as dangerous - Serious eye damage/eye irritation - Eye Dam. 1

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

Not classified as dangerous goods

LABEL ELEMENTS:

Hazard pictograms	
Pictogram name	GHS05 Corrosion
Signal word	**DANGER**
Hazard statements	
Physical Hazards	**H318** Causes serious eye damage.
Health Hazards	
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 CENTER/doctor.
Storage	
Disposal	

OTHER HAZARDS:

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

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCES

This product is a mixture

MIXTURE INGREDIENTS

Ingredient (Designation)	EC No.	Concentration
Alcohols, C6-12, ethoxylated, sulfate, sodium salt	500-485-3	1 - <5%
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	203-961-6	1 - < 5%
Water purified	231-791-2	75-85%

There are no additional ingredients present which, within the current knowledge of the supplier 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 unwellness, seek medical advice immediately (show directions for use or 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

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.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

Wear personal protection equipment (refer to section 8). 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 attention. Use approved industrial vacuum cleaner for removal. Collect in closed and suitable containers for disposal

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Advice on safe use of product:

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

Advice on safe handling:

No special handling advices are necessary.

Environmental precautions:

no information available

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Technical measures and storage conditions:

Store at temperatures above 0°C and below 50°C.

Requirements for storage rooms and containers:

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

Unsuitable container/equipment material:

No information available.

Information on combines storage:

No information available.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

CONTROL PARAMETERS / OCCUPATIONAL EXPOSURE LIMIT VALUES

No exposure standards have been established for this material. However, the available exposure limits for the mixtures ingredients are listed below:

Safe Work, Australia Exposure Standards:

Substance	CAS No.	TWA*	STEL**
Ethanol	64-17-5	ppm - 1000 mg/m^3 ppm - 1880 mg/m^3	No value assigned

Exposure Limits EH40

Substance	CAS No.	TWA*	STEL (15min)**
2-(2-Butoxyethoxy)ethanol	112-34-5	10 ppm, 67.5mg/m^3 (Origin: WEL)	15 ppm, 101.2mg/m^3 (Origin: WEL)

*TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

**STEL (Short Term Exposure Limit): The average airborne concentration over a minute period which should not be exceeded at any time during a normal eight-hour workday.

EXPOSURE CONTROLS

Appropriate engineering controls:

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

Individual protective measures, e.g. Personal Protective Equipment:

Avoid contact with skin, eyes and clothes. When handling with chemical substances, protective gloves must be worn. When using do not eat, drink, smoke, sniff. The following recommendations should be considered: Wear chemical goggles, chemical resistant gloves and in poor ventilated areas use appropriate respiratory protection.

Environmental exposure controls

Not known

Eye/face protection:

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

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 Amber
Odour:	Mild pleasant
pH (at 20°C):	6.0-9.5
Melting point (°C):	-3
Initial boiling point & range (°C):	100

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES (CONTINUED)

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Flash point (°C):	ca. 100 - 110
Sustaining combustion:	Not sustaining combustion
Density (at 20°C):	1.02+-0.02 g/cm³
Water solubility:	very soluble
Viscosity / dynamic (at 20°C):	>20 mPa·s
Solvent content:	1.56%
Solid content	2.67%

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

Substance	CAS No.	Exposure route	Dose	Species
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	112-34-5	Oral Dermal	LD50 5660 mg/kg LD50 4120 mg/kg	Rat Rabbit

Acute toxicity:	Based on available data, the classification criteria are not met.
Skin corrosion/irritation:	Based on available data, the classification criteria are not met.
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 (STOT)– single exposure:	Based on available data, the classification criteria are not met.
Specific Target Organ Toxicity (STOT) – repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.

INFORMATION ON POSSIBLE ROUTES OF EXPOSURE

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

EARLY ONSET SYMPTOMS RELATING TO EXPOSURE

No known effects from this product.

DELAYED HEALTH EFFECTS FROM EXPOSURE

No known effects from this product.

EXPOSURE LEVELS AND HEALTH EFFECTS

No known effects from this product.

INTERACTIVE EFFECTS

No known effects from this product.

SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICITY

There is no data available on the mixture itself.

PERSISTENCE AND DEGRADABILITY

There is no data available on the mixture itself.

BIOACCUMULATIVE POTENTIAL

There is no data available on the mixture itself.

PARTITION COEFFICIENT N-OCTANOL/WATER

Substance	CAS No.	Log Pow
2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	112-34-5	0,56 (25°C)

MOBILITY IN SOIL

There is no data available on the mixture itself.

OTHER ADVERSE EFFECTS

There is no data available on the mixture itself.

FURTHER INFORMATION

Depending on local conditions and existing concentrations, in the case of discharge in biological sewage 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. Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions if applicable

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

UN number	Not applicable. The mixture is not classified as dangerous.
Proper shipping name or Technical Name	Not applicable.
Transport hazard class	**Road and Rail Transport** Not Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG) for transport by Road and Rail **Marine Transport** Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. **Air Transport** Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations
Packing Group	Not applicable.
Environmental hazards for Transport Purposes	Not applicable.
Special Precautions for user	Not applicable.
Additional Information	none
Hazchem or Emergency Action Code	Not hazardous

SECTION 15 - REGULATORY INFORMATION

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 55: 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether

2010/75/EU (VOC): 1.155 % (11.781 g/l)

2004/42/EC (VOC): 3.44 % (35.091 g/l)

Information according to 2012/18/EU

(SEVESO III):

Not subject to 2012/18/EU (SEVESO III)

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

AICS (Australia)

All components of this product are listed on the Australian Inventory of Chemical Substances (AICS) or exempted

CHEMICAL ASSESSMENT

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

SECTION 16 - OTHER INFORMATION

KEY LITERATURE REFERENCES AND SOURCES

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.

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

END OF SDS.