



Safety Data Sheet (SDS)

SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

Product Name:
FLAER (Alexa 488 – proaerolysin variant), lyophilized

Product Numbers:
FL1-C and FL2-C

Manufacturer's Name:
Cedarlane Corporation

Address:
4410 Paletta Court
Burlington, Ontario, Canada L7L 5R2

Telephone Number:
250-598-6822

Supplier's Name:
Cedarlane Corporation

Address:
4410 Paletta Court
Burlington, Ontario, Canada L7L 5R2

Telephone Number:
289-288-0001

Emergency Telephone Number:
CANUTEC - 613-996-6666

Date Prepared:
August 1, 2018

SECTION 2 – HAZARDS IDENTIFICATION

Emergency Overview:

WHMIS Classification

Not WHMIS controlled.

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

HMIS Classification

Health hazard: 0

Chronic Health Hazard: *

Flammability: 0

Physical hazards: 0

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Product Components (Specific Chemical Identity: Common Names(s)):

Sodium Azide (NaN_3) – 0.05%
CAS No: 26628-22-8
EC-No: 247-852-1

Phosphate Buffer Saline (PBS), pH 7.4, 0.01M
CAS No: none
EC-No: none

Bovine Serum Albumin – 5 mg/ml
CAS No: 9048-46-8
EC-No: 232-936-2

Other Comments:

This product contains an inactive variant of the bacterial protein proaerolysin, labeled with Alex Fluor 488 carboxylic acid, succinimidyl ester.

Note: The above mentioned data are based on our present knowledge of this product. Since the use of this information and conditions of use of the product are not within the control of Cedarlane Corporation, it is the user's responsibility to handle the product under conditions of safe use.

Safety Data Sheet (SDS)

SECTION 4 – FIRST AID MEASURES

<i>Eye Contact:</i>	Flush eyes with plenty of water.
<i>Skin Contact:</i>	Flush skin with plenty of water and soap.
<i>Inhalation:</i>	If breathing becomes difficult, move to fresh air and seek medical assistance.
<i>Swallowed</i>	Never give anything by mouth to an unconscious person. Rinse mouth with water.
<i>Emergency First Aid Procedures:</i>	Consult with a physician.

SECTION 5 – FIRE FIGHTING MEASURES

<i>Conditions of flammability:</i>	Not flammable or combustible.
<i>Suitable extinguishing media:</i>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
<i>Special protective equipment for firefighters:</i>	Wear self-contained breathing apparatus for firefighting if necessary.
<i>Hazardous combustion products:</i>	Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.
<i>Explosion data - sensitivity to mechanical impact:</i>	No data available.
<i>Explosion data - sensitivity to static discharge:</i>	no data available

SECTION 6 – ACCIDENTAL RELEASE MEASURES

<i>Steps To Be Taken In Case of Leak or Spill:</i>	Wipe area with absorbent cloth or paper towel. Follow with laboratory disinfectant.
<i>Personal precautions:</i>	Avoid breathing vapours, mist or gas.
<i>Environmental precautions:</i>	Do not let product enter drains.
<i>Methods and materials for containment and cleaning up:</i>	Keep in suitable, closed containers for disposal.

SECTION 7 – HANDLING AND STORAGE

<i>Precautions to be Taken in Handling and Storage:</i>	Avoid inhalation, contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Make sure that the product is stored at the appropriate temperature and tightly sealed.
---	---

Note: The above mentioned data are based on our present knowledge of this product. Since the use of this information and conditions of use of the product are not within the control of Cedarlane Corporation, it is the user's responsibility to handle the product under conditions of safe use.

Safety Data Sheet (SDS)

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

<i>Respiratory Protection (specify type):</i>	Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<i>Ventilation:</i>	Ventilated area.
<i>Hand Protection:</i>	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
<i>Eye protection:</i>	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
<i>Skin and body protection:</i>	Impervious clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<i>General Hygiene Measures</i>	Wash thoroughly after handling. Wash contaminated clothing before re-use.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<i>Physical State:</i>	Lyophilized	<i>Odour Threshold:</i>	N/A
<i>Vapour Pressure:</i>	N/A	<i>Evaporation Rate:</i>	N/A
<i>Freezing Point:</i>	0°C	<i>Coefficient of water/oil distribution:</i>	N/A
<i>Odour and Appearance:</i>	Odourless	<i>Specific Gravity:</i>	N/A
<i>Vapour Density:</i>	N/A	<i>Boiling Point:</i>	N/A
<i>pH</i>	Neutral (7)	<i>Other:</i>	N/A

SECTION 10 – STABILITY AND REACTIVITY

<i>Chemical stability:</i>	Stable under recommended storage conditions.
<i>Possibility of hazardous reactions</i>	No data available.
<i>Conditions to avoid</i>	No data available.
<i>Incompatibility (Materials to Avoid):</i>	Avoid contact with strong acids, bases and strong oxidizing agents.
<i>Conditions to Avoid:</i>	Avoid freeze thaw cycles and exposure to light.
<i>Hazardous Decomposition or Byproducts:</i>	Hazardous decomposition products formed under fire conditions. Nature of decomposition products not known.

Note: The above mentioned data are based on our present knowledge of this product. Since the use of this information and conditions of use of the product are not within the control of Cedarlane Corporation, it is the user's responsibility to handle the product under conditions of safe use.



Safety Data Sheet (SDS)

SECTION 11 – TOXICOLOGICAL INFORMATION

<i>Acute toxicity</i>	
<i>Oral LD50:</i>	No data available
<i>Inhalation LC50:</i>	No data available
<i>Dermal LD50:</i>	No data available
<i>Inhalation LC50:</i>	No data available
<i>Skin corrosion/irritation:</i>	No data available
<i>Serious eye damage/eye irritation:</i>	Eyes: No data available
<i>Respiratory or skin sensitization:</i>	No data available
<i>Germ cell mutagenicity:</i>	No data available
<i>Carcinogenicity:</i>	IARC: No component of this product present at levels greater than or equal to 0.05% is identified as probable, possible or confirmed human carcinogen by IARC.
<i>Reproductive toxicity:</i>	No data available
<i>Teratogenicity:</i>	No data available
<i>Specific target organ toxicity - single exposure (Globally Harmonized System):</i>	No data available
<i>Specific target organ toxicity - repeated exposure (Globally Harmonized System):</i>	No data available
<i>Aspiration hazard:</i>	No data available
<i>Potential health effects</i>	
<i>Inhalation:</i>	May be harmful if inhaled. May cause respiratory tract irritation.
<i>Ingestion:</i>	May be harmful if swallowed.
<i>Skin:</i>	May be harmful if absorbed through skin. May cause skin irritation.
<i>Eyes:</i>	May cause eye irritation.
<i>Signs and Symptoms of Exposure:</i>	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
<i>Synergistic effects:</i>	No data available
<i>Additional Information:</i>	RTECS: Not available

SECTION 12 – ECOLOGICAL INFORMATION

<i>Toxicity:</i>	No data available
<i>Persistence and degradability:</i>	No data available
<i>Bioaccumulative potential:</i>	No data available
<i>PBT and vPvB assessment:</i>	No data available
<i>Other adverse effects:</i>	No data available

Note: The above mentioned data are based on our present knowledge of this product. Since the use of this information and conditions of use of the product are not within the control of Cedarlane Corporation, it is the user's responsibility to handle the product under conditions of safe use.



Safety Data Sheet (SDS)

SECTION 13 – DISPOSAL CONSIDERATIONS

<i>Product:</i>	Offer surplus and non-recyclable solutions to a licensed disposal company.
<i>Contaminated packaging:</i>	Dispose of as unused product.

SECTION 14 – TRANSPORT INFORMATION

<i>DOT:</i>	Not dangerous goods.
<i>IMDG</i>	Not dangerous goods
<i>IATA:</i>	Not dangerous goods.

SECTION 15 – REGULATORY INFORMATION

WHMIS Classification

Not WHMIS controlled.

These products have been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

SECTION 16 – OTHER INFORMATION

These products are for *in vitro* diagnostic use.

Note: The above mentioned data are based on our present knowledge of this product. Since the use of this information and conditions of use of the product are not within the control of Cedarlane Corporation, it is the user's responsibility to handle the product under conditions of safe use.