Safety Data Sheet: SSAFX

Standard solution: Aflatoxicol, 2 ppm solution in Acetonitrile

1) Identification of the substance/mixture and of the Company

Product identifiers

Product name	Standard solution: Aflatoxicol, 2 ppm solution in Acetonitrile
Product Code	SSAFX

Intended uses of the substance or mixture and uses advised against

Intended use	**Uses advised against:**
Only for Research and/or Development	Not for drug, Not to be used in humans or animals. Not food additive

Details of the supplier of the safety data sheet		**Emergency Telephone number**
FERMENTEK ltd 4 Yatziv street, POB 47120 Jerusalem 97800, **Israel**	Tel: +972 2 5853953 Fax: +972 2 5853943 eMail: fermentek@fermentek.com Website: www.fermentek.com	For chemical emergency spill, leak, fire, exposure, or accident calls CHEMTREC day or night: Within USA and Canada: 1-800-424-9300. Outside USA and Canada: +1 703-527-3887

This company is the manufacturer of the product, and the supplier of the safety data sheet

REACH

A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

2) Hazards identification

Comments:

This product is a solution of a negligible amount of toxin, in AcetoNitrile.

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Classification of the substance or mixture

Classification according to CHIP

F: R11; Xn: R20/21/22; Xi:

R11= Highly flammable
R20/21/22: Harmful by inhalation, in contact with skin and if swallowed
R36 Irritating to eyes.

Classification under CLP

Acute Tox. 4: H302+312+332; Eye Irrit. 2: H319; Flam. Liq. 2: H225: (Highly flammable liquid and vapour)

Most important adverse effects

Highly flammable.
Harmful by inhalation, in contact with skin and if swallowed.
Irritating to eyes

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GHS Classification: and label elements

GHS Label elements, including precautionary statements

Pictogram:  **Signal word: {DANGER}**

GHS Hazard Statements	
H225	H225: Highly flammable liquid and vapour.
H302+312+332	H302+312+332: Harmful if swallowed, in contact with skin or if inhaled.
H319	H319: Causes serious eye irritation.
GHS Precautionary Statements	
P260:	P260: Do not breathe fumes.
P280:	P280: Wear protective gloves/protective clothing/eye protection/face protection.
P210:	P210: Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

3) Composition/information on ingredients

Substance

Substance name:	Aflatoxicol 2 ppm solution in Acetonitrile			
Mixture				
Ingredient name:	CAS-No	EC-No	Concentration	comments
Acetonitrile	75-05-8	200-835-2	>99.9%	Flam. Liq. 2; Acute Tox. 4; Eye Irrit. 2; H225, H302 + H312 + H332, H319 F, Xn, R11 - R20/21/22 - R36
Alfatoxicol negligible amount; below 0.1% does not need reporting				

4) First Aid Measures

4.1 Description of First Aid Measures

General advice:	Following ingestion, acetonitrile is converted into cyanide. Therefore, treat as cyanide poisoning., Always have on hand a cyanide first-aid kit, together with proper instructions., The onset of symptoms is generally delayed pending conversion to cyanide. Headache, Dizziness, Rash, Cyanosis, excitement, depression, Drowsiness.
	If medical attention is required, show this safety data sheet to the doctor.
Eye contact:	Bathe the eye with running water for 15 minutes. Consult a doctor.
Skin Contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.
Ingestion:	Do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Drink plenty of water. Clean mouth with water and drink afterwards plenty of water. Call a physician
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.
Self-protection of the first aider:	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions tob protect themselves and prevent spread of contamination.

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4.2. Most important symptoms and effects, both acute and delayed

Skin contact:	There may be irritation and redness at the site of contact.
Eye contact:	There may be irritation and redness. The eyes may water profusely.
Ingestion:	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.

5) Fire-fighting measures

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	None
Hazardous combustion products	Carbon oxides. Nitrogen oxides. May emit hydrocyanic acid on contact with oxidizers.
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.

6) Accidental release measures

Personal precautions	Use personal protective equipment as required. Keep people away from and upwind of spill/leak.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods for containment:	Prevent further leakage or spillage if safe to do so. Cover powder spill with plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.
Methods for cleaning up:	Cover liquid spill with sand, earth or other non-combustible absorbent material (e.g. sand, earth, diatomaceous earth, and vermiculite). Cover powder spill with plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.

7) Handling and storage

Precautions for safe handling

Advice on safe handling:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Smoking is forbidden. Use non-sparking tools. Only use in fume hood.

Conditions for safe storage, including any incompatibilities

Storage Conditions:	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Store at -20 °C.
Incompatible materials:	Oxidisers.

8) Exposure Controls/Personal Protection

No occupational exposure limits are listed for this material.

OSHA Permissible Exposure Limits	No Data Available
NIOSH Recommended Exposure Limits	No Data Available
ACGIH Threshold Limit Values	No Data Available

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Exposure controls

Appropriate engineering controls

Engineering Controls	Showers, Eyewash stations, Ventilation systems

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Use fumehood for routine work.

Personal protective equipment

The employer/end user, prior to use of this product should perform all recommendations below are advisory in nature and a risk assessment. The type of protective equipment must be selected based on the amount and concentration of the dangerous material being used in the workplace.

[PPE=Personal Protection Equipment]

PPE: Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate, use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
PPE: Hand Protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal techniques to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices, and wash and dry hands
PPE: Eye Protection:	Safety glasses. Ensure eye bath is available and reachable.
PPE: Skin and Body Protection:	Handle with gloves. Wear protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

9) Physical and chemical properties

Physical / chemical properties

Physical State at room temperature	Clear liquid
Color	Colourless
Melting/freezing point	-45
Boiling point	81-82
Flash point	2°C
Density	0.782g/cm^3

No further safety-relevant information is available

10) Stability and reactivity

Reactivity:	No information available.
Chemical stability:	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Strong reducers and exidizers
Possibility of Hazardous Reactions	None under normal processing
Hazardous decomposition products:	Carbon oxides; Nitrogen oxides. HCN vapours.

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11) Information on toxicological effects

Acute Toxicity		
	No data available for the particular product. Therefore, data for Acetonitrile (The major component) are given.	
	Toxicity for Acetonitrile:	
	LD50 (Oral, Rat)	2.4 gram/kg
Oral	LD50 (Oral - feline)	200 mg/kg
Inhalation	LC50 (Inh. - feline)	18 gram/m^3
Skin corrosion/irritation:	No data available	
Serious eye damage/eye irritation:	yes	
Symptoms / routes of exposure		
Skin contact:	There may be irritation and redness at the site of contact.	
Eye contact:	There may be irritation and redness. The eyes may water profusely.	
Ingestion:	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.	
Inhalation:	There may be irritation of the throat with a feeling of tightness in the chest.	
Skin contact:	There may be irritation and redness at the site of contact	
Cancer risk	No pertinent data concerning the carcinogenicity of acetonitrile in humans were located. EPA has classified acetonitrile as a Group D, not classifiable as to human carcinogenicity OSHA: No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.	
Teratogenicity, Mutagenicity	No information available	
Potential Health Effects	Following ingestion, acetonitrile is converted into cyanide. Therefore, treat as cyanide poisoning., Always have on hand a cyanide first-aid kit, together with proper instructions., The onset of symptoms is generally delayed pending conversion to cyanide., Headache, Dizziness, Rash, Cyanosis, excitement, depression, Drowsiness	
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	Topxic if swallowed	
Signs and Symptoms of Exposure	No information available.	
Additional information:	RTECS: AL7700000 (for acetonitrile)	

12) Ecological Information

Eco-Toxicity No relevant information available
Other adverse effects No relevant information available.

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13) Disposal Considerations

Waste treatment methods

Waste from residues / unused products	Dispose of in accordance with local regulations
Contaminated packaging	Dispose of as unused product

14) Transport information

UN number, Proper Shipping Name, Transport Hazard Class, packing group

	US DOT	**IMDG**	**IATA**
UN Number **UN proper shipping name**	UN1648 Acetonitrile	UN1648 Acetonitrile	UN1648 Acetonitrile
Transport Hazard Class **& Packing Group**	3 Pg II	3 Pg II	3 Pg II
	DOT regulated Small quantity provisions apply (see 49CFR173.4). Reportable Quantity (RQ): 5000 lbs	EMS-No: F-E, S-D	

15) Regulatory information

Safety, health and environmental regulations/legislation	
USA EPA / TSCA	This product is not listed on the USA EPA TSCA. **It is FOR RESEARCH ONLY.**
	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
OSHA Hazards	Flammable liquid Target Organ Effect Harmful by ingestion Harmful by skin absorption Irritant
EU ECHA Status	This product is not registered with the EU ECHA
CA: DSL/NDSL Status	This product is not listed on the Canadian DSL/NDSL

16) Other information

Date of revision:27 dec 2016

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given here is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of SDS

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