





1. Identification of the Solution and the Manufacturer

1.1. Product identifiers

Product name	Standard Solution of Ochratoxin B in Acetonitrile				
Product Code	SSOCB	Version Date		23 July, 2024	
	Ingredient name	ne Ingredient CAS RN		Ingredient concentration	
Toxin	<u>Ochratoxin B</u>	482	25-86-9	10 ppm	
Solvent	Acetonitrile	75-	-05-8	<100%	
1.2. Intended uses of the solution and uses advised against					
1.2.1. Intended use:			1.2.2. Uses advised against:		
Reference material			Not a drug,		
Research and development.			Not a food additiv	е	
Laboratory reagent.			Not to be used in l	numans or animals.	
1.3. Contacts					
1.3.1. Details of the supplier of the SDS					
FERMENTEK ltd Tel: +9			072 2 5853953		
4 Yatziv street, POB 47120 Fax: +9			-972 2 5853943		
Jerusalem 97800), <i>eM</i>	ail:	<u>Fermentek@Fermentek.com</u>		
Israel			<u>Safety@Fermentek.com</u>		
Website		<u>Fermentek.com</u>			

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

1.3.2. Emergency Telephone number

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

2. Hazards' identification

Emergency overview

Appearance: Colorless liquid with a sweet ethereal odor, packed in amber glass vials, 1 or 5 mililiter per vial.

Immediate effects: Irritation of the nose and throat with sneezing, sore throat or runny nose.

Potential health effects

Primary Routes of entry: Inhalation, skin contact, eye contact.

Signs and Symptoms of Overexposure: Chest tightness or main, flushing of the face, central nervous system depression with dizziness, confusion, uncoordinated, drowsiness or unconsciousness; convulsions; impaired blood clotting with increased tendency toward bruising and bleeding; low blood pressure; increased heart rate; abnormal kidney function with altered urinalysis; and abnormal liver function with altered enzyme levels I blood. The on-set of symptoms may be delayed. Gross overexposure may cause fatality.

Eyes: Eye irritation with tearing, pain or blurred vision.

Skin: Slight irritation with itching, redness or swelling.





Ingestion: Nausea or vomiting.

Inhalation: Irritation of the nose and throat with sneezing, sore throat or runny nose.

2.1. Classification of the Mixture/Solution

2.1.1. GHS Classification: According to EU Reg. 1272/2008 and US OSHA 1910.1200)

Comment: This product is a vial containing 1 or 5 cc of solution of a negligible amount of toxin, dissolved in Acetonitrile.

Flammable liquids	Category 2	H225	Highly flammable liquid and vapour		
Acute toxicity, Oral	Category 4	H302	Harmful if swallowed.		
Acute toxicity, Dermal	Category 4	H312	Harmful if in contact with skin.		
Acute toxicity, Inhalation	Category 4	H332	Harmful if inhaled.		
Eye irritation	Category 2	H319	Causes serious eye irritation		
2.2 CHS I about a low onto including procession and statements					

2.2. GHS Label elements, including precautionary statements

2.2.1.	2.1. Pictogram: { Signal word: {DANGER}				
2.2.2.	Hazard Statements				
H225		Highly flammable liquid and vapour			
<i>H302</i> +	-H312+H332	Harmful if swallowed, in contact with skin or if inhaled.			
H319		Causes serious eye irritation.			
2.2.3.	GHS Precaution	nary Statements			
P201		Obtain special instructions before use.			
P202		Do not handle until all safety precautions have been read and understood.			
P210		Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.			
P280		Wear {protective gloves/protective clothing/eye protection/face protection}.			
P262		Do not get in eyes, on skin, or on clothing			
P264		Wash {hands} thoroughly after handling.			
P270		Do not eat, drink or smoke when using this product.			

2.2.4. GHS Response Phrases:

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dis nesponse	
P308+P313	IF EXPOSED OR CONCERNED: Get medical advice/attention
P301+P312+P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P302+P352+P312	IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.
P301+P310+P330	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P304+P340+P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P318	IF EXPOSED OR CONCERNED, get medical advice

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Safety Data Sheet: Standard Solution of Ochratoxin B in Acetonitrile

3. Composition/information on ingredients				
Mixture / solution	Solvent	Toxin		
Substance Name:	Acetonitrile	<u>Ochratoxin B</u>		
Concentration	<100%	10 ppm		
CAS Registry#:	75-05-8	4825-86-9		
Molecular Formula	C2H3N	Negligible, no report needed		
Molecular Weight	41.05	Negligible, no report needed		
Classification	Flam. Liq. 2; Acute Tox. 4; Eye Irrit. 2; H225, H302, H332, H312, H319	Negligible, no report needed		
	REACH:Registered	Negligible, no report needed		

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4. First Aid Measures

4.1. Description of First Aid Measures

General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance.
Inhalation:	If inhalled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Skin Contact:	Skin Contact: In case of contact, immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician. To prevent cross-contamination, properly dispose of contaminated clothing and shoes with minimal handling. Avoid contact
Eye(s) contact:	Flush eyes with water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Ingestion:	Ingestion: If swallowed, immediately give 2 glasses of water and induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.
4.2. Mo	st important symptoms and effects, both acute and delayed
General	The onset of symptoms is generally delayed pending conversion to cyanide.
symptoms	Nausea, Vomiting, Diarrhoea, Headache, Dizziness, Rash, Cyanosis, excitement, depression, Drowsiness, impaired judgment, Lack of coordination, stupor, death
4.3. Ind	ication of any immediate medical attention and special treatment needed
Note to physicians	Treatment: Although the metabolic fate of this compound is not completely known, some nitriles are partially metabolized to cyanide. Symptoms may be delayed. If overexposed, treatment for cyanides may be indicated. Following exposure, the patient should be observed for 24-48 hours or more for symptoms of cyanide intoxication.
	Treatment for cyanide intoxication:

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1. If conscious but symptoms (nausea, difficult breathing, dizziness, etc.) are evident, give oxygen.

2. If consciousness is impaired (non- responsiveness, slurred speech, confusion, drowsiness) or the patient is unconscious but breathing, give oxygen and amyl nitrite by means of a respirator. To give amyl nitrite, break an ampoule in a gauze pad and insert into lip of mask for 15 seconds, then take away for 15 seconds. Repeat 5-6 times. If necessary, use a fresh ampoule every 3 minutes until the patient regains

consciousness (usually 1-4 ampoules). Administer oxygen continuously. Guard against the ampoule entering the patient's mouth.

3. If not breathing, give oxygen and amyl nitrite immediately by means of a positive pressure respirator (artificial respiration). See 2 above, and continue to give oxygen simultaneously to aid recovery. If massive exposure occurred, consider keeping the first one or two ampoules in the lip of the mask continuously. Guard against the ampoule entering the patient's mouth.

Medical treatment: Do not over-react. Although prompt action is essential when symptoms of poisoning occur, a lucid conscious person who can communicate may not have significant cyanide poisoning and medical treatment may not be necessary.

"Treat what you see" is a good rule of thumb. Mildly symptomatic patients who remain alert may be managed by supportive care only.

First aid of oxygen and amyl nitrate may be the only treatment needed. However, in severe intoxication, medical treatment of I.V. sodium nitrite and sodium thiosulfate may be needed.

Medical treatment procedure:

Intravenous antidote: Sodium nitrite: Adult – 10 ml of 3% solution (300mg) Draw solution from ampoule and inject slowly over 4-5 minutes (2 to 2.5ml/minute). As soon as practical, monitor blood pressure and continue checking pulse. Slow the rate of injection if hypotension (low blood pressure) occurs.

1. Sodium thiosulfate: Adult – 50 ml of 25% solution (12.5 grams).

Follow sodium nitrite with sodium thiosulfate injected at a rate of 2.3 ml/minute (10-20 minutes).

The total time for injection of these initial doses of both components at the recommended rates is lengthy, approximately 20-25 minutes.

Consider the body weight and condition of the patient when treating with sodium nitrite. Both amyl nitrite and sodium nitrite produce methemoglobin, which reduces the oxygen carrying capacity of the blood. Methemoglobinemia is potentially harmful when hemoglobin levels exceed 20-30%.

If symptoms persist or recur after the initial treatment, repeat the antidote at one half the original dose and one hour after the original administration. Monitor methemoglobin levels when practical in every patient treated with the intravenous antidote.

Avoid over-treatment:

The above sodium nitrite injection is about one-third the lethal dose. Care should be taken to avoid excessive use. It is NOT essential that full quantities of antidote be given just because





treatment was started. Should injection be stopped for any reason, keep track of the amount administered in case treatment needs to be restarted.

Medical Conditions generally Aggravated by Exposure: Increased susceptibility to the effects of Acetonitrile may be observed in persons with the pre-existing disease of the central nervous system, liver, kidneys, lungs, and cardiovascular system.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing medic	<i>Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.</i>		
Unsuitable extinguishing media	None known		
5.2. Other information	n		
Hazardous combustion products	Carbon oxides, Nitrogen oxides (NOx)		
Advice for firefighters	Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.		
6. Accidental rele	ase measures		
6.1. Personal precaut	ions, protective equipment and emergency procedures		
Personal precautions	Use personal protective equipment as required. Keep people away from and upwind of spill/leak.		
6.2. Environmental p	recautions		
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.		
6.3. Methods and mat	terial for containment and cleaning up		
Methods for containment:	Prevent further leakage or spillage if safe to do so. Cover the powder spill with a plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for later disposal.		
Methods for cleaning up:	Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Cover liquid spill with sand, earth or other non- combustible absorbent material (e.g., sand, earth, diatomaceous earth, and vermiculite). Cover the powder spill with a plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.		
7. Handling and s	storage		
7.1. Precautions for s	afe handling		
Advice on safe handling:	Avoid contact with skin, eyes or clothing. Use personal protective		

ntact with skin, eyes or clothing. Use personal protective
nt as required. Wash contaminated clothing before reuse. Do not
dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke
ing this product.
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7.2. Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Storage Conditions: Keep out of the reach of children. Store at -20 °C. Suitable packaging Must only be kept in original packaging. Incompatible materials: None known based on information available. **8**. **Exposure Controls/Personal Protection** *8.1*. **Control parameters** Control parameters Components with workplace control parameters 8.2. **Exposure** controls Appropriate engineering Showers, Eyewash stations, Ventilation systems controls Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Use fume-hood for routine work. 8.3. Personal protective equipment [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:	Use a face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU)
PPE: Skin and Body Protection:	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. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

9. Physical and chemical properties

9.1. Physical/chemical properties

Physical Sta temperature		Clear	liquid				
Smell		Ether	like odor				
Color		Color	Colorless				
No further safety relevant data		t data are av	ailable				
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10. Stability and reactivity

Reactivity:	No information available.
Chemical stability:	Stable under normal conditions.
Conditions to avoid	Heat, flames and sparks. Sunlight.
Incompatible materials	Strong reducers and exidizers
Possibility of Hazardous Reactions	None under normal processing
Hazardous combustion products	See section 5

11. Toxicological information

11.1. Information on toxicological effects

11.1.1. Acute Toxicity

Acute toxicity:	Oral, rat; $LD50 = 6.5$ gram/kg Inhalation, $LC50 = Rat - 4 h - 17000 ppm$			
Skin corrosion/irritation:	LD50 Dermal - Rabbit - 1gram/kg			
Serious eye damage/eye irritation:	Positive			
Respiratory or skin sensitization/corrosion:	Negative			
11.1.2. Chronic toxicity				
Chronic toxicity	No data available			
11.1.3. CRM (Carcinogene, Mu	tagene, Reproductive hazards)			
Germ cell mutagenicity:	Negative.			
Carcinogenicity:	Not classifiable as a human carcinogen There is an absence of human evidence and the animal evidence is equivocal evidence of carcinogenicity in animal studies.			
Reproductive toxicity	No data available			
11.2. Additional informati	on			
General symptoms	See <u>section 2</u>			
12. Ecological Inform	nation			
Eco-Toxicity	No data available			
Other adverse effects	No data available			
13. Disposal Consider	rations			
13.1. Waste treatment met	hods			
Waste Disposal	Dispose of in accordance with local regulations			
Contaminated packaging	Dispose of as unused product			





14. Transport information

14.1. UN Number, Proper Shipping Name, Transport Hazard Class, packing group				
	US DOT	ADR/RID	IATA	IMDG
UN Number & UN proper shipping name	UN 1648 Acetonitrile (S	tandard Solution o	f Ochratoxin	B in Acetonitrile)
Transport Hazard Class & Packing Group	Class 3 pg II			
De Minimis exemption	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore, the package does not have to be labeled as Dangerous Goods/Excepted Quantity.			

15. Regulatory information

15.1. Safety, health, and environmental regulations/legislation

USA EPA / TSCA	This product is not listed on the USA EPA TSCA
EU ECHA Status	This product is NOT REGISTERED with the EU ECHA as of 07.2024 REACH: Neither Registered nor PreRegistered ANNEX III: Not Listed

16. Other information

16.1. Department issuing this SDS

Quality systems and regulatory affairs

16.2. General 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 proces, unless specified in the text.

16.3. The users'/employers' responsibility:

A risk assessment should be performed by the employer/user prior to the use of this product.

All recommendations included in this document, are advisory in nature.

The type of protective equipment must be selected based on the amount and concentration of all dangerous materials being used in the workplace.

16.4. No-Copyright statement

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Fermentek believes that no one can claim copyright on an SDS.

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<i>16.5</i> .	Abbreviations	and	acronyms:
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Acute Tox.:	Acute toxicity
CAS:	Chemical Abstracts Service
DOT:	US Department of Transportation

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EINECS:	European Inventory of Existing Commercial Chemical Substances
Eye Dam.:	Serious eye damage/eye irritation
HSDB	Hazardous Substances Data Bank
HMIS:	Hazardous Materials Identification System (USA)
IATA:	International Air Transport Association
IMDG:	International Maritime Code for Dangerous Goods
LC50:	Lethal concentration, Median
LD50:	Lethal dose median
LD50:	Lethal dose, Median
NDG	Not dangerous goods (for transport)
NFPA:	National Fire Protection Association USA
NIOSH:	National Institute for Occupational Safety
OSHA:	Occupational Safety & Health
PBT:	Persistent, Bioaccumulative, and Toxic
PEL:	Permissible Exposure Limit
REL:	Recommended Exposure Limit
Repr.:	Reproductive toxicity
RTECS:	Registry of Toxic Effects of Chemical Substances
Skin Irrit:	Skin corrosion/irritation
STOT/SE	Specific target organ toxicity/Single exposure
STOT/RE	Specific target organ toxicity/Repeated exposure
TDL0	Toxic dose, least published

16.6. End of SDS