



L'anna

# Safety Data Sheet: Standard Solution of T2 Toxin in Acetonitrile

Sect.1 Sect.2	Sect.4 Sect.5	Sect.	<u>11</u>		1 2 3 4 5 6 7 8 9 10 11
1. Identifi	cation of the so	lution a	and the	Manufactur	er
1.1. Product	identifiers				
Product name	Standard Solut	ion of T2	Toxin i	n Acetonitrile	
Product Code	SST		Version	Date	23 July, 2024
	Ingredient name		Ingredie	ent CAS RN	Ingredient concentration
Toxin	<u>T2 Toxin</u>		21259-2	20-1	100 ppm
Solvent	Acetonitrile		75-05-8		<100%
1.2. Intended	l uses of the solut	ion and i	uses adv	vised against	
1.2.1. Intended	use:		1.2.2.	Uses advised age	ainst:
Reference material			Not a d	Not a drug,	
Research and development.			Not a food additive		
Laboratory reagent.			Not to	be used in hum	ans or animals.
1.3. Contacts	1				
1.3.1. Details o	f the supplier of the	SDS			
FERMENTEK ltd Tel: +97		72 2 58.	53953		
4 Yatziv street, POB 47120 Fax: +9		972 2 58	353943		
Jerusalem 97800, eMail:		eMail:	4	Fermentek@Fe	<u>ermentek.com</u>
Israel				<u>Safety@Fermer</u>	
		Website	:	<u>Fermentek.com</u>	
This company is the manufacturer of the product and the supplier of the safety data sheet					

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.

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 2       H319       Causes serious eye irritation         2.2.       GHS Label elements, including precautionary statements         2.2.       GHS Label elements, including precautionary statements         2.2.       Harmful if swallowed.         H322       Harmful if inhaled.         2.2.       Haraf Statements         H322       Harmful if swallowed.         H322       Harmful if swallowed.         H322       Harmful if swallowed.         H322       Harmful if swallowed.         H332       Harmful if swallowed.         H332       Harmful if swallowed.         H333       Harmful if swallowed.         H334       Harmful if swallowed.         H335       Harmful if swallowed.         P201       Obtain special instructions before use. </th <th>Flamm</th> <th>able liquids</th> <th></th> <th>Category 2</th> <th>H225</th> <th>Highly flammable liquid and vapour</th>	Flamm	able liquids		Category 2	H225	Highly flammable liquid and vapour
Acute toxicity, Inhalation       Category 4       H32       Harmful if inhaled.         Eye irritation       Category 2       H319       Causes serious eye irritation         2.2.       GHS Label elements, including precautionary statements         2.2.1       Pictogram: (*)       Signal word: {DANGER}         2.2.2       Hazard Statements         H225       Highly flammable liquid and vapour         H302+H312+H332       Harmful if swallowed, in contact with skin or if inhaled.         H319       Causes serious eye irritation.         2.3.       GHS Precautionary 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.         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:         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 wat	Acute	toxicity, Oral		Category 4	H302	Harmful if swallowed.
Eye irritation       Category 2       H319       Catuses serious eye irritation         2.2.       GHS Label elements, including precautionary statements         2.2.1.       Pictogram: [***]       Signal word: {DANGER}         2.2.2.       Hazard Statements         H225       Highly flammable liquid and vapour         H302+H312+H332       Harmful if swallowed, in contact with skin or if inhaled.         H319       Causes serious eye irritation.         2.3.       GHS Precautionary 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.         P262       Do not do stin special instructive gloves/protective clothing/eye protection/face protection].         P262       Do not set 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:         P308+P313       IF EXPOSED OR CONCERNED: Get medical advice/attention smoth.         P301+P312+P330       IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.         P302+P352+P312       IF ON SKIN: Was	Acute	toxicity, Dermal		Category 4	H312	Harmful if in contact with skin.
2.2. GHS Label elements, including precautionary statements         2.2.1. Pictogram: { → } Signal word: {DANGER}         2.2.2. Hazard Statements         H225       Highly flammable liquid and vapour         H302+H312+H332       Harmful if swallowed, in contact with skin or if inhaled.         H319       Causes serious eye irritation.         2.3. GHS Precautionary 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         P270       Do not eat, drink or smoke when using this product. <b>2.2.4. GHS Response Phrases:</b> 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.         P301+P310+P330       IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. </td <td>Acute</td> <td>toxicity, Inhalatio</td> <td>n</td> <td>Category 4</td> <td>H332</td> <td>Harmful if inhaled.</td>	Acute	toxicity, Inhalatio	n	Category 4	H332	Harmful if inhaled.
<ul> <li>2.2.1. Pictogram: [ Signal word: [DANGER]</li> <li>2.2.2. Hazard Statements</li> <li>H225 Highly flammable liquid and vapour</li> <li>H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.</li> <li>H319 Causes serious eye irritation.</li> <li>2.2.3. GHS Precautionary Statements</li> <li>P201 Obtain special instructions before use.</li> <li>P202 Do not handle until all safety precautions have been read and understood.</li> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.</li> <li>P280 Wear [protective gloves/protective clothing/eye protection/face protection].</li> <li>P262 Do not get in eyes, on skin, or on clothing</li> <li>P264 Wash (hands) thoroughly after handling.</li> <li>P270 Do not eat, drink or smoke when using this product.</li> <li>2.2.4. GHS Response Phrases:</li> <li>P308+P313 IF EXPOSED OR CONCERNED: Get medical advice/attention 501+P312+P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.</li> <li>P301+P310+P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.</li> <li>P304+P340+P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.</li> </ul>	Eye irr	ritation		Category 2	H319	Causes serious eye irritation
2.2.2. Hazard StatementsH225Highly flammable liquid and vapourH302+H312+H332Harmful if swallowed, in contact with skin or if inhaled.H319Causes serious eye irritation.2.2.3. GHS Precautionary StatementsP201Obtain special instructions before use.P202Do not handle until all safety precautions have been read and understood.P210Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.P280Wear (protective gloves/protective clothing/eye protection/face protection].P262Do not get in eyes, on skin, or on clothingP264Wash (hands) thoroughly after handling.P270Do not eat, drink or smoke when using this product.P308+P313IF EXPOSED OR CONCERNED: Get medical advice/attentionP301+P312+P330IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.P301+P310+P330IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.P301+P310+P330IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.P304+P340+P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.	2.2.	GHS Label el	ements	, including precaut	ionary st	atements
H225Highly flammable liquid and vapourH302+H312+H322Harmful if swallowed, in contact with skin or if inhaled.H319Causes serious eye irritation. <b>2.3.3 GHS Precautionary Statements</b> P201Obtain special instructions before use.P202Do not handle until all safety precautions have been read and understood.P210Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.P280Wear [protective gloves/protective clothing/eye protection/face protection].P262Do not get in eyes, on skin, or on clothingP264Wash [hands] thoroughly after handling.P270Do not eat, drink or smoke when using this product. <b>2.2.4. GHS Response Phrases:</b> P308+P313IF EXPOSED OR CONCERNED: Get medical advice/attention IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.P301+P310+P330IF SWALLOWED: Call a POISON CENTER/doctor. Rinse mouth.P301+P310+P330IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.P304+P340+P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.		0 1	nts	Signal word: {DANG	ER}	
H302+H312+H332Harmful if swallowed, in contact with skin or if inhaled.H319Causes serious eye irritation.2.3. GHS Precautionary StatementsP201Obtain special instructions before use.P202Do not handle until all safety precautions have been read and understood.P210Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.P280Wear {protective gloves/protective clothing/eye protection/face protection].P262Do not get in eyes, on skin, or on clothingP264Wash {hands} thoroughly after handling.P270Do not eat, drink or smoke when using this product.P308+P313IF EXPOSED OR CONCERNED: Get medical advice/attention mouth.P302+P352+P312IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.P301+P310+P330IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.P304+P340+P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.				flammable liquid and v	vapour	
2.2.3. GHS Precautionary StatementsP201Obtain special instructions before use.P202Do not handle until all safety precautions have been read and understood.P210Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.P280Wear {protective gloves/protective clothing/eye protection/face protection}.P262Do not get in eyes, on skin, or on clothingP264Wash (hands) thoroughly after handling.P270Do not eat, drink or smoke when using this product.P308+P313IF EXPOSED OR CONCERNED: Get medical advice/attention IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.P301+P310+P330IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.P304+P340+P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.	<i>H302</i> +	- <i>H312+H332</i>				in or if inhaled.
P201Obtain special instructions before use.P202Do not handle until all safety precautions have been read and understood.P210Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.P280Wear (protective gloves/protective clothing/eye protection/face protection).P262Do not get in eyes, on skin, or on clothingP264Wash (hands) thoroughly after handling.P270Do not eat, drink or smoke when using this product.P308+P313IF EXPOSED OR CONCERNED: Get medical advice/attention IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.P302+P352+P312IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.P301+P310+P330IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.P304+P340+P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.	H319		Causes	serious eye irritation.		
P202Do not handle until all safety precautions have been read and understood.P210Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.P280Wear {protective gloves/protective clothing/eye protection/face protection}.P262Do not get in eyes, on skin, or on clothingP264Wash {hands} thoroughly after handling.P270Do not eat, drink or smoke when using this product. <b>2.2.4.GHS Response Phrases:</b> P308+P313IF EXPOSED OR CONCERNED: Get medical advice/attention IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.P302+P352+P312IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.P301+P310+P330IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.P304+P340+P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.	2.2.3.	GHS Precaution	nary Stat	ements		
P210Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke.P280Wear {protective gloves/protective clothing/eye protection/face protection}.P262Do not get in eyes, on skin, or on clothingP264Wash {hands} thoroughly after handling.P270Do not eat, drink or smoke when using this product. <b>2.2.4.</b> GHS Response Phrases:P308+P313IF EXPOSED OR CONCERNED: Get medical advice/attention IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.P302+P352+P312IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.P301+P310+P330IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.P304+P340+P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.	P201		Obtain	special instructions be	fore use.	
sources. Do not smoke.P280Wear {protective gloves/protective clothing/eye protection/face protection}.P262Do not get in eyes, on skin, or on clothingP264Wash {hands} thoroughly after handling.P270Do not eat, drink or smoke when using this product. <b>2.2.4.</b> GHS Response Phrases:P308+P313IF EXPOSED OR CONCERNED: Get medical advice/attentionP301+P312+P330IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.P301+P310+P330IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.P301+P310+P330IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.P304+P340+P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.	P202		Do not	handle until all safety <sub>l</sub>	precaution	s have been read and understood.
P262Do not get in eyes, on skin, or on clothingP264Wash {hands} thoroughly after handling.P270Do not eat, drink or smoke when using this product. <b>2.2.4. GHS Response Phrases:</b> P308+P313IF EXPOSED OR CONCERNED: Get medical advice/attentionP301+P312+P330IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.P302+P352+P312IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.P301+P310+P330IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.P304+P340+P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.	P210		-		faces, spar	ks, open flames and other ignition
P264Wash {hands} thoroughly after handling.P270Do not eat, drink or smoke when using this product.2.2.4. GHS Response Phrases:P308+P313IF EXPOSED OR CONCERNED: Get medical advice/attentionP301+P312+P330IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.P302+P352+P312IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.P301+P310+P330IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.P304+P340+P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.	P280		Wear {	protective gloves/protective	ctive cloth	ing/eye protection/face protection}.
P270Do not eat, drink or smoke when using this product. <b>2.2.4.</b> GHS Response Phrases:P308+P313IF EXPOSED OR CONCERNED: Get medical advice/attention IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.P302+P352+P312IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.P301+P310+P330IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.P304+P340+P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.	P262		Do not	get in eyes, on skin, or	on clothin	g
Or 12.2.4. GHS Response Phrases:P308+P313IF EXPOSED OR CONCERNED: Get medical advice/attentionP301+P312+P330IF EXPOSED OR CONCERNED: Get medical advice/attentionP301+P312+P330IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.P302+P352+P312IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.P301+P310+P330IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.P304+P340+P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.	P264		Wash {	hands} thoroughly afte	r handling	•
P308+P313IF EXPOSED OR CONCERNED: Get medical advice/attentionP301+P312+P330IF EXPOSED OR CONCERNED: Get medical advice/attentionIF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.P302+P352+P312IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.P301+P310+P330IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.P304+P340+P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.	P270		Do not	eat, drink or smoke wh	en using ti	his product.
P301+P312+P330IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.P302+P352+P312IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.P301+P310+P330IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.P304+P340+P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.	2.2.4.	GHS Response	Phrases:			
mouth.P302+P352+P312IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell.P301+P310+P330IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.P304+P340+P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.	<i>P308</i> +	- <i>P313</i>				
feel unwell.P301+P310+P330IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.P304+P340+P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.	<i>P301</i> +	-P312+P330		LLOWED: Call a POI	SON CEN	TER/doctor if you feel unwell. Rinse
P304+P340+P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.	<i>P302</i> +	-P352+P312		· ·	y of water.	Call a POISON CENTER/doctor if you
Call a POISON CENTER/doctor if you feel unwell.	<i>P301</i> +	-P310+P330	IF SWA	LLOWED: Immediated	ly call a P	OISON CENTER/doctor. Rinse mouth.
P318 IF EXPOSED OR CONCERNED, get medical advice	<i>P304</i> +	-P340+P312		-	•	
	<i>P318</i>		IF EXP	OSED OR CONCERN	ED, get m	edical advice





<u>Sect.16</u>

# Safety Data Sheet: Standard Solution of T2 Toxin in Acetonitrile

3. Composition/information on ingredients			
Mixture / solution	Solvent	Toxin	
Substance Name:	Acetonitrile	Standard Solution of T2 Toxin in Acetonitrile	
Concentration	<100%	100 ppm	
CAS Registry#:	75-05-8	21259-20-1	
Molecular Formula	С2Н3N	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	

Sect.11

Sect.14

Sect.15

# 4. First Aid Measures

Sect.2

Sect.1

#### 4.1. Description of First Aid Measures

Sect.4

Sect.5

• v
Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhalled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
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
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: If swallowed, immediately give 2 glasses of water and induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.
t important symptoms and effects, both acute and delayed
The onset of symptoms is generally delayed pending conversion to cyanide.
Nausea, Vomiting, Diarrhoea, Headache, Dizziness, Rash, Cyanosis, excitement, depression, Drowsiness, impaired judgment, Lack of coordination, stupor, death
cation of any immediate medical attention and special treatment needed
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: 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 media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	None known
5.2. Other information	
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 release measures

#### 6.1. Personal precautions, 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 precautions

Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from
	entering drains.

#### 6.3. Methods and material for containment and cleaning up

	J 8 1
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 storage*

## 7.1. 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.

#### 7.2. 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.
Suitable packaging	Must only be kept in original packaging.
Incompatible materials:	None known based on information available.





# 8. Exposure Controls/Personal Protection

0.1.	Control parameters	
Contro	ol parameters	Components with workplace control parameters
<i>8.2</i> .	Exposure controls	
Approp control	priate engineering ls	Showers, Eyewash stations, Ventilation systems 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 Equ	uipment]
PPE: F	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: H	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: I	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: S Protect	Skin and Body tion:	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.
	-	NIOSH (US) or EN 166 (EU) Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to a skin contact with this product. Dispose of contaminated gloves after u in accordance with applicable laws and good laboratory practices. W and dry hands. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374

# 9. Physical and chemical properties

# 9.1. Physical/chemical properties

Physical State at room	Clear liquid	
temperature		
Smell	Ether like odor	
Color	Colorless	
No further safety relevant data are available		

# 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





Sect.16

# Safety Data Sheet: Standard Solution of T2 Toxin in Acetonitrile

Possibility of Hazardous Reactions	None under normal processing
Hazardous combustion products	See section 5

Sect.11

Sect.14

Sect.15

# Sect.1Sect.2Sect.4Sect.511.Toxicological information

# 11.1. Information on toxicological effects

To the best of our knowledge, the toxicological effects of this product have not been thoroughly studied yet. *11.1.1.* Acute Toxicity

11.1.1. Acute Ioxicuy						
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,	Mutagene, 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 inform	ation					
General symptoms	See section 2					
12. Ecological Info	rmation					
Eco-Toxicity	No data available					
Other adverse effects	No data available					
13. Disposal Consid	lerations					
13.1. Waste treatment n	nethods					
Waste Disposal	Dispose of in accordance with local regulations					
Contaminated packaging	Dispose of as unused product					
14. Transport infor	mation					
<u>Sect.1</u> <u>Sect.2</u> <u>S</u>	ect.4 Sect.5 Sect.11 Sect.14 Sect.15 Sect.16					
14.1. UN number, Prop	er Shipping Name, Transport Hazard Class, packing group					
	S DOT ADR/RID IATA IMDG					
UN Number & UN proper shipping name	N 1648 Acetonitrile (Standard Solution of T2 Toxin in Acetonitrile)					





	Hazard Class Group	Class 3 pg II	,						
Additional	information							Not ma	rine pollutant
De Minimis	s exemption	Quantity Cod	de of E1, E2, er IATA 2.6.1	E4, or E. 10. There	5, this fore, th	item mee	ts the I	De Minim	an Excepted his Quantities to be labeled
15. Re	gulatory i	nformation	ı						
Sect.1	Sect.2	Sect.4	Sect.5	Sect.1	1	<u>Sect.14</u>	9	Sect.15	<u>Sect.16</u>
15.1. Saf	fety, health,	and environ	nmental reg	gulation	s/legi	slation			
USA EPA /	TSCA	This prod	uct is not list	ed on the	USA I	EPA TSC.	A		
EU ECHA S	Status								
16. Ot	her inforn	nation							
Sect.1	Sect.2	Sect.4	Sect.5	Sect.1	<u>1</u>	<u>Sect.14</u>	9	Sect.15	<u>Sect.16</u>
16.1. De	nartment is	suing this SI	DS						
		ulatory affairs							
	neral Discl								
		d in this Safety	Data Sheet i	s correct	to the	best of o	ur kno	wledge, in	nformation
•	-	its publication.				o o o o o o o o o o o o o o o o o o o			9
•	•	ere is designed		ance for s	safe ha	ndling, u	se, pro	ocessing,	storage,
transportat	ion, disposal,	and release an	nd is not to be	e conside	red a v	varranty	or qua	lity speci	fication
nansportat									jicanon.
-	ation relates o	only to the spec	cific material		ed and	l may not	-	• • •	
The inform		only to the spec n any other mai	v	designat		•	be val	id for suc	
The information used in com	ibination with	•	terials or in a	designat		•	be val	id for suc	
The information of the information of the information of the second seco	ibination with e users'/em	h any other mai	terials or in a consibility:	designat iny proce	rs, unle	ss specifi	be val ied in t	id for suc he text.	ch material
The informa used in com <b>16.3. Th</b> A risk asses	nbination with e users'/em ssment shoula	n any other man ployers' resp	terials or in a <b>consibility:</b> by the emplo	designat my proce yer/user	es, unle	ss specifi o the use	be val ied in t	id for suc he text.	ch material
The informa used in com <b>16.3.</b> The A risk asses All recomm The type of	nbination with e users'/em ssment should cendations inc protective eq	h any other man ployers' resp l be performed cluded in this d uipment must l	terials or in a <b>consibility:</b> by the emplo ocument, are be selected bo	designat iny proce yer/user advisory	s, unle prior to in nat	ss specifi o the use ure.	be val ied in t of this	id for suche text.	ch material
The informa used in com <b>16.3.</b> The A risk asses All recomm The type of dangerous	nbination with e users'/em ssment should cendations inc protective eq materials bein	n any other man ployers' resp be performed cluded in this d uipment must b ng used in the v	terials or in a <b>consibility:</b> by the emplo ocument, are be selected bo	designat iny proce yer/user advisory	s, unle prior to in nat	ss specifi o the use ure.	be val ied in t of this	id for suche text.	ch material
The informa used in com <b>16.3. The</b> A risk asses All recomm The type of dangerous <b>16.4. No</b>	nbination with e users'/em ssment should cendations inc protective eq materials bein -Copyright	h any other man ployers' resp be performed cluded in this d uipment must b ng used in the v statement	terials or in a consibility: by the emplo ocument, are be selected ba workplace.	designat my proce yer/user advisory ised on th	s, unle prior to in nat	ss specifi o the use ure.	be val ied in t of this	id for suche text.	ch material
The informa used in com <b>16.3.</b> The A risk asses All recomm The type of dangerous <b>16.4.</b> No Fermentek	nbination with e users'/em ssment should cendations inc protective eq materials bein -Copyright does not clain	n any other man ployers' resp be performed cluded in this d uipment must b ng used in the v statement m © copyright	terials or in a ponsibility: by the emplo ocument, are be selected ba workplace. on this docur	designat my proce yer/user advisory used on th nent.	prior ta prior ta in nat he amo	ss specifi o the use ure.	be val ied in t of this	id for suche text.	ch material
The informa used in com <b>16.3.</b> The A risk asses All recomm The type of dangerous <b>16.4.</b> No Fermentek Fermentek	abination with <b>e users'/em</b> ssment should cendations inc protective eq materials bein <b>-Copyright</b> does not clain believes that	h any other man ployers' resp I be performed cluded in this d uipment must l ng used in the v statement m © copyright no one can cla	terials or in a ponsibility: by the emplo ocument, are be selected ba workplace. on this docur im copyright	designat my proce yer/user advisory used on th nent. on an SL	prior ta prior ta in nat he amo DS.	ss specifi o the use ure. unt and o	be val ied in t of this concen	id for suc he text. product. tration of	ch material
The informa used in com <b>16.3.</b> The A risk asses All recomm The type of dangerous to <b>16.4.</b> No Fermentek Fermentek This sort of	abination with <b>e users'/em</b> ssment should protective eq materials bein <b>-Copyright</b> does not clain believes that f document is	h any other man ployers' resp be performed cluded in this d uipment must b ng used in the statement n © copyright no one can clau but a compend	terials or in a onsibility: by the emplo ocument, are be selected ba workplace. on this docur im copyright ium of comm	designat ny proce yer/user advisory ised on th nent. on an SL on knowl	prior to prior to in nat he amo DS.	ss specifi o the use ure. unt and o	be val ied in t of this concen	id for suc he text. product. tration of	ch material
The informa used in com <b>16.3.</b> The A risk asses All recomm The type of dangerous to <b>16.4.</b> No Fermentek Fermentek This sort of	abination with <b>e users'/em</b> ssment should protective eq materials bein <b>-Copyright</b> does not clain believes that f document is	h any other man ployers' resp I be performed cluded in this d uipment must l ng used in the v statement m © copyright no one can cla	terials or in a onsibility: by the emplo ocument, are be selected ba workplace. on this docur im copyright ium of comm	designat ny proce yer/user advisory ised on th nent. on an SL on knowl	prior to prior to in nat he amo DS.	ss specifi o the use ure. unt and o	be val ied in t of this concen	id for suc he text. product. tration of	ch material
The informa used in com <b>16.3.</b> The A risk asses All recomm The type of dangerous <b>16.4.</b> No Fermentek Fermentek This sort of Fermentek	abination with <b>e users'/em</b> ssment should cendations inc protective eq materials bein <b>-Copyright</b> does not clain believes that f document is explicitly rele	h any other man ployers' resp be performed cluded in this d uipment must b ng used in the statement n © copyright no one can clau but a compend	terials or in a consibility: by the emplo ocument, are be selected ba workplace. on this docur im copyright ium of comm ment into the	designat ny proce yer/user advisory ised on th nent. on an SL on knowl	prior to prior to in nat he amo DS.	ss specifi o the use ure. unt and o	be val ied in t of this concen	id for suc he text. product. tration of	ch material
The informa used in com <b>16.3.</b> The A risk asses All recomm The type of dangerous <b>16.4.</b> No Fermentek Fermentek This sort of Fermentek	abination with <b>e users'/em</b> ssment should cendations inco- protective eq materials bein <b>-Copyright</b> does not clain believes that f document is explicitly rele <b>breviations</b> Acute toxici	n any other man ployers' resp be performed cluded in this d uipment must b ng used in the v statement m © copyright no one can clau but a compend eases this docum and acronyn	terials or in a ponsibility: by the emplo ocument, are be selected ba workplace. on this docur im copyright lium of comm ment into the <b>ns:</b>	designat ny proce yer/user advisory ised on th nent. on an SL on knowl	prior to prior to in nat he amo DS. ledge a omain.	ss specifi o the use ure. unt and o	be val ied in t of this concen	id for suc he text. product. tration of	ch material
The informa used in com <b>16.3.</b> The A risk asses All recomm The type of dangerous <b>16.4.</b> No Fermentek Fermentek This sort of Fermentek <b>16.5.</b> Ab	abination with <b>e users'/em</b> ssment should cendations inco- protective eq materials bein <b>-Copyright</b> does not clain believes that f document is explicitly rele <b>breviations</b> Acute toxici	h any other man ployers' resp be performed cluded in this d uipment must b ng used in the v statement n © copyright no one can clau but a compend eases this docum and acronyr	terials or in a consibility: by the emplo ocument, are be selected ba workplace. on this docur im copyright ium of comm ment into the <b>ns:</b>	designat my proce yer/user advisory ised on th nent. on an SE on knowl public de	prior ta prior ta in nat he amo DS. ledge a omain.	ss specifi o the use ure. unt and o nd publis	be val ied in t of this concen	id for suc he text. product. tration of	ch material
The informa used in com <b>16.3.</b> The A risk asses All recomm The type of dangerous in <b>16.4.</b> No Fermentek Fermentek This sort of Fermentek <b>16.5.</b> Abb Acute Tox.:	abination with <b>e users'/em</b> ssment should cendations incompositions protective eq materials bein <b>-Copyright</b> does not clain believes that f document is explicitly releves <b>breviations</b> Acute toxici Chemical A	n any other man ployers' resp be performed cluded in this d uipment must b ng used in the v statement m © copyright no one can clau but a compend eases this docum and acronyn	terials or in a ponsibility: by the emplo ocument, are be selected ba workplace. on this docur im copyright lium of comm ment into the <b>ns:</b>	designat my proce yer/user advisory used on th nent. on an SL on knowl public do LD50:	os, unle prior ta in nat he amo OS. ledge a omain. Letha Natio	ss specifi o the use ure. unt and o and publis al dose, Me mal Fire P	be val ied in t of this concen shed fa dian rotectio	id for suc he text. product. tration of	ch material f all
The informa used in com <b>16.3.</b> The A risk asses All recomm The type of dangerous <b>16.4.</b> No Fermentek Fermentek This sort of Fermentek <b>16.5.</b> Ab Acute Tox.: CAS:	abination with <b>e users'/em</b> ssment should cendations inco- protective eq materials bein <b>-Copyright</b> does not clain believes that f document is explicitly relevent <b>breviations</b> Acute toxici Chemical A US Departm European In	h any other man ployers' resp be performed cluded in this d uipment must b ng used in the v statement n © copyright no one can clau but a compend cases this docum and acronyn ty bstracts Service	terials or in a <b>consibility:</b> by the emplo ocument, are be selected ba workplace. on this docur im copyright ium of comm ment into the <b>ns:</b> ution	designat my proce yer/user advisory used on th nent. on an SE on knowh public do LD50: NFPA:	os, unle prior ta in nat he amo DS. ledge a omain. Letha Natic Natic	ss specifi o the use ure. unt and o and publis al dose, Me mal Fire P	be val ed in t of this concen shed fa dian rotectio te for O	id for suche text.	ch material f all





lous Substances Data Bank lous Materials Identification	PEL:	Permissible Exposure Limit
ous Materials Identification	DET	
(USA)	REL:	Recommended Exposure Limit
tional Air Transport Association	Repr.:	Reproductive toxicity
tional Maritime Code for rous Goods	RTECS:	Registry of Toxic Effects of Chemical Substances
concentration, Median		
dose median	Skin Irrit:	Skin corrosion/irritation
	TDL0	Toxic dose, least published
ngerous goods (for transport)		
t t c d	tional Air Transport Association tional Maritime Code for ous Goods concentration, Median lose median	tional Air Transport Association Repr.: tional Maritime Code for RTECS: ous Goods concentration, Median lose median Skin Irrit: TDL0

16.6. End of SDS