



## **Roridin E**

## 1. Identification of the Substance and the Manufacturer

Product nameRoridin EFormulaC29H38O8Product CodeROEMolecular weight514.61 g/molCAS#16891-85-3Substance? Mixture?Substance?ECHA#-Not listed as at 7-2024-VVComptox501034221Pubchem#44593339T3DB#T3D3711RTECSYX9821500Drug bank#-Not listed as at 7-2024-HSDB#-Not listed-SynonymsVerrucarin A, 2',3'-dide/bvCr7'-deoxo-2'-deoxy-7'-((1R)-1-bvToxyethyl)-, (2'E,7'R)-SourceMyrothecium sp.Version Date19 October, 20241.2.Intended uses of the SubstanceIntended uses of a gainst19 October, 20241.2.Intended uses of the SubstanceNot a drug,Intended uses of the Substances.Intended use in humans or animals.Research and development.Not a food additiveNot a food additiveIntendet uses of the supplier of the SDSI.3.ContactsIntendet use of the supplier of the SDSIntendet use in humans or animals.Manufacturing of substances.Not to be used in humans or animals.I.3.ContactsFax: +972 2 5853953FERMENTEK HTel: +972 2 5853943eMail:Fermentek@Fermentek.comSafety@Fermentek.comSafety@Fermentek.comSafety@Fermentek.comSafety@Fermentek.com	1.1. Product	identifiers					
CAS#16891-85-3Substance? Mixture?SubstanceECHA#-Not listed as at 7-2024- $IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII$	Product name	<u>Roridin E</u>		Formula		$C_{2}$	29H38O8
ECHA#-Not listed as at 7-2024-Image: Second	Product Code	ROE		Molecular	weight	51	4.61 g/mol
Comptox $501034221$ Pubchem# $44593339$ T3DB#T3D3711RTECS $YX9821500$ Drug bank#-Not listed as at 7-2024HSDB# $-Not$ listed- sourceSynonymsVerrucarin A, 2',3'-dide/bytro-7'-deoxo-2'-deoxy-7'-((1R)-1-bytro-y-thytr)-, (2'E,7'R)- Version Date19 October, 2024SourceMyrothecium sp.Version Date19 October, 20241.2.Intended uses of the Substance and uses advised against19 October, 20241.2.Intended use:1.2.2. Uses advised against:Research and dvelopment.Not a drug, Not a food additiveReference material.Not a food additiveManufacturing of substances. To be used by professionals onlyNot to be used in humans or animals.1.3.ContactsI.3.ContactsFERMENTEK ltd 4 Yatziv street, POB 47120 Jerusalem 97800, IsraelTel: +972 2 5853953 Fax: +972 2 5853943 eMail:Fermentek@Fermentek.com Safety@Fermentek.com	CAS#	16891-85-3		Substance	? Mixture?	Su	bstance
T3DB#T3D3711RTECSYX9821500Drug bank#-Not listed as at 7-2024-HSDB#-Not listed-SynonymsVerrucarin A, 2',3'-didehydro-7'-deoxo-2'-deoxy-7'-((1R)-1-hydroxyethyl)-, (2'E,7'R)-SourceMyrothecium sp.Version Date19 October, 20241.2.Intended uses of the Substance and uses advised against19 October, 20241.2.1.Intended use:1.2.2.Uses advised against:Research and development.Not a drug,Laboratory reagent.Not a food additiveReference material.Not to be used in humans or animals.Manufacturing of substances.Not to be used in humans or animals.To be used by professionals onlyIf el: +972 2 5853953FERMENTEK ltdTel: +972 2 5853953FERMENTEK ltdFax: +972 2 58539434 Yatziv street, POB 47120Fax: +972 2 5853943Jerusalem 97800,eMail:IsraelSafety@Fermentek.com	ECHA#	-Not listed as at 7-202	24-				
Drug bank#-Not listed as at 7-2024-HSDB#-Not listedSynonymsVerrucarin A, 2',3'-didehydro-7'-deoxo-2'-deoxy-7'-((1R)-1-hydroxyethyl)-, (2'E,7'R)-SourceMyrothecium sp.Version Date19 October, 20241.2.Intended uses of the Substance and uses advised against19 October, 20241.2.1.Intended uses of the Substance and uses advised against:19 October, 20241.2.1.Intended use:1.2.2.Uses advised against:Research and development.Not a drug,Image: Not a food additiveLaboratory reagent.Not a food additiveReference material.Not to be used in humans or animals.Manufacturing of substances.Image: Not to be used in humans or animals.To be used by professionals onlyImage: Tel: +972 2 5853953FERMENTEK ltdTel: +972 2 58539434 Yatziv street, POB 47120Fax: +972 2 5853943Jerusalem 97800,eMail:IsraelSafety@Fermentek.com	Comptox	<u>501034221</u>		Pubchem#	4	<u>44</u>	<u>593339</u>
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4 Yatziv street, POB 47120Fax: +972 2 5853943Jerusalem 97800,eMail: <a href="mailto:Fermentek.com">Fermentek.com</a> IsraelSafety@Fermentek.com	1.3.1. Details of the supplier of the SDS						
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Jerusalem 97800,eMail:Fermentek@Fermentek.comIsraelSafety@Fermentek.com	4 Yatziv street, POB 47120		<i>Fax:</i> +972 2 5853943				
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Website: <u>Fermentek.com</u>	Israel			Safety@Fermentek.com			<u>om</u>
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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



Sect.2











Sect.4



## **Roridin E**



## 2. Hazards' identification.

2.1. Classification of the Substance.

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

Accute toxicity: Oral Category 3 H301

## 2.2. GHS Label elements, including precautionary statements

2.2.1.	Pictogram: { 🗘 } S	ignal word: {Warning} Statements
H301		Toxic if swallowed
2.2.2.	GHS Precautionary St	atements
P203		Obtain, read and follow all safety instructions before use.
P261		Avoid breathing dust or mist.
P264		Wash {hands} thoroughly after handling.
P270		Do not eat, drink or smoke when using this product.
P272		Contaminated work clothing should not be allowed out of the workplace.
P280		Wear protective gloves/protective clothing/eye protection/face protection/hearing protection

*Toxic if swallowed* 

### 2.2.3. GHS Response Phrases:

*P301+P316, IF SWALLOWED: Get emergency medical help immediately.* 

*P330 Rinse mouth.* 

## 3. Composition/information on ingredients

### Substance

Substance Name:	Roridin E
Concentration	<=100%
CAS Registry#:	16891-85-3
<i>EC#:</i>	-Not listed as at 7-2024-
Molecular Formula:	С29Н38О8
Molecular Weight:	514.61 g/mol
Classification	Acc 0:3 (H301)
Mixture?	Substance

### 4. First Aid Measures.

### 4.1. Description of First Aid Measures.

General advice:	First-aiders need to protect themselves. If medical attention is required, show this safety data sheet to the doctor in attendance.
Eye contact:	Rinse out with plenty of water. Remove contact lenses.
Skin Contact:	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.





# **Roridin E**



advice immediately.    whalation:  If inhaled, move the person into fresh air.    2. Most important symptoms and effects, both acute and delayed    serveral symptoms  See section 11.2    3. Indication of any immediate medical attention and special treatment needed    lote to physicians  No data available    Fire-fighting media:  Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.    insuitable extinguishing media  Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.    insuitable extinguishing media  None known    uedia  None known    2. Other information  Carbon oxide    lazardous combustion  Carbon oxide    roducts  Formula C2vEIs0s    dvice for firefighters  Wear self-contained breathing apparatus for fire fighting if necessary.    Wear protective suit.  Accidental release measures    1. Personal precautions  Spectonal protective equipment, and emergency procedures    ersonal precautions  Vise personal protective equipment as required. Keep people away from and upwind of spill/leak.    2. Environmental precutions  Prevent further leakage or spillage if safe to do so. Over the powder spill with a plastic sheet or tarp to minimize spreading. Dike far ahead of liquid spill for latter disposal.		
2. Most important symptoms and effects, both acute and delayed    ieneral symptoms  See section 11.2    3. Indication of any immediate medical attention and special treatment needed    lote to physicians  No data available    Fire-fighting measures.  I. Extinguishing media    uitable extinguishing media  Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.    insuitable extinguishing media  Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.    insuitable extinguishing media  Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.    insuitable extinguishing media  Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.    insuitable extinguishing media  Use water spray.    2. Other information  Carbon oxide    fredia  Formula CzelTasOs    dvice for firefighters  Wear self-contuined breathing apparatus for fire fighting if necessary.    Wear protective suit.  Accidental release measures    1. Personal precautions  protective equipment, and emergency procedures    ersonal precautions  Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.    3. Methods and material for containment and cleaning up  Prevent further leakage or spillage if safe to do so. Cover the powder spill with a	Ingestion:	
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roducts  Formula C29H38O8    advice for firefighters  Wear self-contained breathing apparatus for fire fighting if necessary. Wear protective suit.    Accidental release measures  Image: Personal precautions protective equipment, and emergency procedures    1. Personal precautions  Use personal protective equipment as required. Keep people away from and upwind of spill/leak.    2. Environmental precautions  Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.    3. Methods and material for containment and cleaning up  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 noncombustible absorbent material (e.g., sand, earth, diatomaceous earth, and verniculite). Cover the powder spill with a plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.    Handling and storege  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.    ect.  Sect.2  Sect.4  Sect.11  Sect.14  Sect.15  Sect.16	*	
Wear protective suit.  Wear protective suit.    Accidental release measures    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.    2. Environmental precautions  Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.    3. Methods and material for containment and cleaning up  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.    Handling and storage  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.    ect.1  Sect.2  Sect.4  Sect.1  Sect.15  Sect.16	Hazardous combustion products	
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.    2. Environmental precautions  Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.    3. Methods and material for containment and cleaning up  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.    Handling and storage  Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breath dustfume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.	Advice for firefighters	
Personal precautionsUse personal protective equipment as required. Keep people away from and upwind of spill/leak.2. Environmental precautionsPrevent further leakage or spillage if safe to do so. Prevent product from entering drains.3. Methods and material for containment and cleaning upPrevent 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 a plastic sheet or tarp to minimize spreading. Sweep up and shovel into suitable containers for disposal.Handling and storageAvoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breath dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.	6. Accidental releas	se measures
and upwind of spill/leak.    2. Environmental precautions    Environmental precautions    Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.    3. Methods and material 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.    Handling and storage  Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breath dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.    Vect.1  Sect.2  Sect.4  Sect.5  Sect.11  Sect.15  Sect.16	6.1. Personal precautio	ns, protective equipment, and emergency procedures
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1. Precautions for safe handling   dvice on safe handling:   dvice 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.    Sect.1  Sect.2    Sect.2  Sect.4    Sect.5  Sect.11    Sect.14  Sect.15	Methods for cleaning up:	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
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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.Sect.1Sect.2Sect.4Sect.5Sect.11Sect.14Sect.15Sect.16	7.1. Precautions for saf	fe handling
	Advice on safe handling:	equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke
DS Roridin E vers 07-2024 Page 3 of 8	Sect.1 Sect.2 Sec	<u>ct.4 Sect.5 Sect.11 Sect.14 Sect.15 Sect.16</u>
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# **Roridin E**



7.2. Conditions for safe	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.			
	<i>Store at -20 °C.</i>			
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 Equ	uipment]			

- 1	
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.

#### Physical and chemical properties 9.

#### *Physical/chemical properties 9.1*.

Physical S temperatur	tate at room re	Solid					
Appearance	ce	Powe	ler, White				
<u>Sect. 1</u>	Sect.2	Sect.4	<u>Sect.5</u>	<u>Sect.11</u>	<u>Sect.14</u>	<u>Sect.15</u>	<u>Sect.16</u>
~ ~ ~							



## **Roridin E**



Sect.16

Sect.14

Sect.15

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

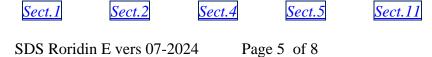
## 11. Toxicological information

### 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	<i>Toxicity</i>

Acute toxicity:	Oral, Mouse, LD50= 55 mg/kg. No other acute toxicity available. Intraperitoneal, Mouse, LD50=10 mg/kg		
Skin corrosion/irritation:	No data available		
Serious eye damage/eye irritation:	No data available		
Respiratory or skin sensitization/corrosion:	No data available		
11.1.2. Chronic toxicity			
Chronic toxicity	No data available		
11.1.3. CRM (Carcinogene, Mu			
Germ cell mutagenicity:	No data available		
Carcinogenicity:	Not classified by IARC		
<i>Reproductive toxicity / Teratogenicity:</i>	No data available		
11.2. Additional information	on		
RTECS number	YX9821500		
General symptoms	Behavioral: somnolence (general depressed activity) Convulsions or effect on seizure threshold; Muscle contraction or spasticity)		
12. Ecological Inform	ation		
Eco-Toxicity	No data available		
Other adverse effects	No data available		





# **Roridin** E



<ul><li>13. Disposal Considerations</li><li>13.1. Waste treatment methods</li></ul>				
Waste Disposal	Dispose of in accordance with local regulations			
Contaminated packaging	Dispose of as unused product			
14. Transport info	rmation			
14.1. UN Number, Pro 14.1.1. IATA	per Shipping Name, Transport Hazard Class, packing group			
UN Number UN proper shipping name	UN 3462 - Toxins, Extracted from Living Sources, Solid, N.O.S. (Roridin E)			
Transport Hazard Class & Packing Group	Class 6.1 (Poison); Packing group III			
14.1.2. ADR/RID				
UN Number UN proper shipping name	UN 3462 - Toxins, Extracted from Living Sources, Solid, N.O.S. (Roridin E)			
Transport Hazard Class & Packing Group	Class 6.1 (Poison); Packing group III			
14.1.3. US/DOT				
UN Number UN proper shipping name	UN 3462 - Toxins, Extracted from Living Sources, Solid, N.O.S. (Roridin E)			
Transport Hazard Class & Packing Group	Class 6.1 (Poison); Packing group III			
14.1.4. IMDG				
UN Number UN proper shipping name	UN 3462 - Toxins, Extracted from Living Sources, Solid, N.O.S. (Roridin E)			
Transport Hazard Class & Packing Group	Class 6.1 (Poison); Packing group III			

#### **Regulatory information** 15.

#### Safety, health, and environmental regulations/legislation 15.1.

USA EPA / TSCA	This product is not listed on the USA EPA TSCA (it is for research)
EU ECHA Status	This product is registered with the EU ECHA, Number <b>-Not listed as at 7-2024</b> - REACH: Neither Registered nor PreRegistered. ANNEX III (criteria for 1 - 10 tonne registered substances): Not Listed

#### **Other information** *16*.

<i>16.1</i> .	Version info							
	7-2024 First	version						
<i>16.2</i> .	6.2. Department issuing this SDS							
Quality systems and regulatory affairs								
Sect.1	Sect.2	Sect.4	Sect.5	Sect.11	Sect.14	Sect.15	Sect.16	





## **Roridin** E



#### *16.3*. **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.

#### 16.4. 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.

#### *No-Copyright statement* 16.5.

*Fermentek does not claim* © *copyright on this document.* 

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This sort of document is but a compendium of common knowledge and published facts.

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#### 16.6. Abbreviations and acronyms:

	uiions ana acronyms:			
Acute Tox.:	Acute toxicity			
CAS:	Chemical Abstracts Service			
DOT:	US Department of Transportation			
ECHA	European Chemicals Agency			
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			
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			
T3DB	Toxin and Toxin Target Database			
Sect.1	<u>t.2</u> <u>Sect.4</u> <u>Sect.5</u> <u>Sect.11</u> <u>Sect.14</u> <u>Sect.15</u> <u>Sect.16</u>			

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TDL0Toxic dose, least published16.7.End of SDS





Sect.5







