

### SECTION 1: Identification

#### 1.1. Identification

Product form : Substance  
 Trade name : Cotin™ 227  
 Synonyms : Dibutyltin diacetate

#### 1.2. Recommended use and restrictions on use

Recommended use : Catalyst  
 Restrictions on use : None

#### 1.3. Supplier

Aurorium  
 201 North Illinois Street  
 Suite 1800  
 Indianapolis, IN, 46204  
 USA  
 T +1-317-247-8141  
[SDS@aurorium.com](mailto:SDS@aurorium.com) - [www.aurorium.com](http://www.aurorium.com)

#### 1.4. Emergency telephone number

Emergency number : Aurorium: +1-317-247-8141  
 CHEMTREC (USA): +1-800-424-9300 (24 hours)  
 CHEMTREC (International):+1-703-527-3887 (24 hours)

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Skin corrosion/irritation Category 1B	H314	Causes severe skin burns and eye damage
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Skin sensitization, category 1B	H317	May cause an allergic skin reaction
Germ cell mutagenicity Category 2	H341	Suspected of causing genetic defects
Reproductive toxicity Category 1B	H360	May damage fertility or the unborn child
Specific target organ toxicity (single exposure) Category 1	H370	Causes damage to organs (thymus) (oral)
Specific target organ toxicity (repeated exposure) Category 1	H372	Causes damage to organs (thymus) through prolonged or repeated exposure
Hazardous to the aquatic environment – Acute Hazard Category 1	H400	Very toxic to aquatic life
Hazardous to the aquatic environment – Chronic Hazard Category 1	H410	Very toxic to aquatic life with long lasting effects

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

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Hazard statements (GHS US)	: H314 - Causes severe skin burns and eye damage H317 - May cause an allergic skin reaction H341 - Suspected of causing genetic defects H370 - Causes damage to organs (thymus) (oral) H372 - Causes damage to organs (thymus) through prolonged or repeated exposure H400 - Very toxic to aquatic life H410 - Very toxic to aquatic life with long lasting effects H360FD - May damage fertility. May damage the unborn child.
Precautionary statements (GHS US)	: P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe vapors, mist. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P272 - Contaminated work clothing must not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting. P302+P352 - If on skin: Wash with plenty of water. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P307+P311 - If exposed: Call a poison center/doctor. P310 - Immediately call a POISON CENTER, a doctor. P314 - Get medical advice/attention if you feel unwell. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse. P391 - Collect spillage. P405 - Store locked up. P501 - Dispose of contents or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Name : Cotin™ 227

Name	Product identifier	%	GHS US classification
Dibutyltin diacetate	CAS-No.: 1067-33-0	> 99.8	Acute Tox. 2 (Oral), H300 Skin Corr. 1B, H314 Skin Sens. 1B, H317 STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	GHS US classification
Dibutyltin dichloride (Impurity)	CAS-No.: 683-18-1	≤ 0.19	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360 STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of hazard classes and H-statements : see section 16

### 3.2. Mixtures

Not applicable

## SECTION 4: First-aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Immediately call a poison center or doctor/physician.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.

### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: Causes burns to the respiratory system.
Symptoms/effects after skin contact	: Causes severe skin burns. Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye damage. Serious damage to eyes.
Symptoms/effects after ingestion	: Corrosion or irritation of the linings of the mouth, throat, and gastrointestinal tract. Burns.
Most Important Symptoms/Effects	: Causes severe skin burns and eye damage. May cause an allergic skin reaction. Corrosion or irritation of the linings of the mouth, throat, and gastrointestinal tract. Causes damage to organs (thymus) (oral). Causes burns to the respiratory system.
Chronic symptoms	: Causes damage to organs through prolonged or repeated exposure. May damage fertility or the unborn child. May cause heritable genetic damage.

### 4.3. Immediate medical attention and special treatment, if necessary

IF exposed: Get immediate medical advice/attention.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: Not classified. Could burn but does not ignite readily.
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Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Do not allow run-off from fire fighting to enter drains or water courses.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ventilate spillage area. Keep unnecessary and unprotected personnel away from the spillage. No open flames. No smoking.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Do not get in eyes, on skin, or on clothing. Do not touch or walk on the spilled product. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment. Do not allow product to spread into the environment. Do not allow to enter drains or water courses. Notify authorities if product enters sewers or public waters.

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

For containment : Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Notify authorities if product enters sewers or public waters.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Handle in accordance with good industrial hygiene and safety procedures. Do not allow product to spread into the environment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe mist, vapors, dust.  
Hygiene measures : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.  
Incompatible products : Strong acids, strong bases and oxidation agents.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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<b>USA - ACGIH - Occupational Exposure Limits</b>	
ACGIH OEL TWA	0.1 mg/m <sup>3</sup> (Sn)
ACGIH OEL STEL	0.2 mg/m <sup>3</sup> (Sn)
Remark (ACGIH)	A4
ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route
<b>USA - OSHA - Occupational Exposure Limits</b>	
OSHA PEL (TWA) [1]	0.1 mg/m <sup>3</sup> (Sn)
<b>USA - NIOSH - Occupational Exposure Limits</b>	
NIOSH REL (TWA)	0.1 mg/m <sup>3</sup> (Sn)
<b>Dibutyltin diacetate (1067-33-0)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Tin, organic compounds, as Sn
ACGIH OEL TWA	0.1 mg/m <sup>3</sup> Skin
ACGIH OEL STEL	0.2 mg/m <sup>3</sup> Skin
Remark (ACGIH)	A4
ACGIH chemical category	Skin - potential significant contribution to overall exposure by the cutaneous route
<b>USA - OSHA - Occupational Exposure Limits</b>	
Local name	Tin, organic compounds, as Sn
OSHA PEL (TWA) [1]	0.1 mg/m <sup>3</sup>
<b>USA - NIOSH - Occupational Exposure Limits</b>	
NIOSH REL (TWA)	0.1 mg/m <sup>3</sup> (Sn)
<b>Dibutyltin dichloride (683-18-1)</b>	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Tin, organic compounds, as Sn
ACGIH OEL TWA	0.1 mg/m <sup>3</sup> Skin
ACGIH OEL STEL	0.2 mg/m <sup>3</sup> Skin
<b>USA - OSHA - Occupational Exposure Limits</b>	
Local name	Tin, organic compounds, as Sn
OSHA PEL (TWA) [1]	0.1 mg/m <sup>3</sup>

#### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Emergency eye wash fountain with clean water. Floors should be impervious, resistant to liquids and easy to clean.
- Environmental exposure controls : Do not allow product to spread into the environment. Avoid release to the environment.

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### 8.3. Individual protection measures/Personal protective equipment

**Materials for protective clothing:**

Wear suitable protective clothing

**Hand protection:**

Chemically resistant protective gloves

**Eye protection:**

Chemical goggles or safety glasses

**Skin and body protection:**

Wear suitable protective clothing. Chemical resistant safety shoes

**Respiratory protection:**

[In case of inadequate ventilation] wear respiratory protection.

**Thermal hazard protection:**

Not applicable.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear.
Color	: Colorless
Odor	: mild
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: 9 °C 50°F
Boiling point	: 139 °C 282°F
Flash point	: 150 °C 302°F
Relative evaporation rate (butyl acetate=1)	: < 1
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: 0.32 Pa (20°C)
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Molecular mass	: 351.02 g/mol
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: 3.39
Auto-ignition temperature	: 520 °C 968°F
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reacts with : Strong bases. Oxidizer.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

High temperature.

#### 10.5. Incompatible materials

Keep away from oxidizers, strong acids and strong bases.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified. Highly corrosive to skin. Data not validated  
Acute toxicity (dermal) : Not classified. Highly corrosive to skin. Data not validated  
Acute toxicity (inhalation) : Not classified

Cotin™ 227	
ATE US (oral)	32 mg/kg body weight
ATE US (dermal)	2318 mg/kg body weight
Dibutyltin diacetate (1067-33-0)	
LD50 dermal rabbit	2320 mg/kg Source: GESTIS
ATE US (oral)	32 mg/kg body weight
ATE US (dermal)	2320 mg/kg body weight
Dibutyltin dichloride (683-18-1)	
LD50 oral rat	219 mg/kg body weight Animal: rat, Remarks on results: other., 95% CL: 157 - 277
LD50 oral	58.28 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	0.059 mg/l/4h

Skin corrosion/irritation : Causes severe skin burns.  
Serious eye damage/irritation : Causes serious eye damage.  
Respiratory or skin sensitization : May cause an allergic skin reaction.  
Germ cell mutagenicity : Suspected of causing genetic defects.  
Carcinogenicity : Not classified. Not listed (IARC, NTP, US OSHA)  
Reproductive toxicity : May damage fertility or the unborn child.  
STOT-single exposure : Causes damage to organs (thymus) (oral).

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<b>Dibutyltin diacetate (1067-33-0)</b>	
STOT-single exposure	Causes damage to organs.
<b>Dibutyltin dichloride (683-18-1)</b>	
STOT-single exposure	Causes damage to organs (thymus) (oral).
STOT-repeated exposure	: Causes damage to organs (thymus) through prolonged or repeated exposure.
<b>Dibutyltin diacetate (1067-33-0)</b>	
STOT-repeated exposure	Causes damage to organs through prolonged or repeated exposure.
<b>Dibutyltin dichloride (683-18-1)</b>	
STOT-repeated exposure	Causes damage to organs (thymus) through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects after inhalation	: Causes burns to the respiratory system.
Symptoms/effects after skin contact	: Causes severe skin burns. Burns. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Causes serious eye damage. Serious damage to eyes.
Symptoms/effects after ingestion	: Corrosion or irritation of the linings of the mouth, throat, and gastrointestinal tract. Burns.
Most Important Symptoms/Effects	: Causes severe skin burns and eye damage. May cause an allergic skin reaction. Corrosion or irritation of the linings of the mouth, throat, and gastrointestinal tract. Causes damage to organs (thymus) (oral). Causes burns to the respiratory system.
Chronic symptoms	: Causes damage to organs through prolonged or repeated exposure. May damage fertility or the unborn child. May cause heritable genetic damage.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

<b>Dibutyltin diacetate (1067-33-0)</b>	
LC50 - Fish [1]	3.1 mg/l Source: ECHA
EC50 - Crustacea [1]	1.4 mg/l Test organisms (species): Daphnia magna
<b>Dibutyltin dichloride (683-18-1)</b>	
LC50 - Fish [1]	> 4 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	0.843 mg/l Test organisms (species): Daphnia magna
ErC50 algae	0.04 mg/l
NOEC chronic crustacea	0.0105 mg/l

### 12.2. Persistence and degradability

<b>Cotin™ 227</b>	
Persistence and degradability	Not readily biodegradable.
<b>Dibutyltin dichloride (683-18-1)</b>	
Not rapidly degradable	
Persistence and degradability	Not readily biodegradable.



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### 12.3. Bioaccumulative potential

#### Cotin™ 227

Partition coefficient n-octanol/water (Log Pow)	3.39
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#### Dibutyltin diacetate (1067-33-0)

Partition coefficient n-octanol/water (Log Pow)	3.39 (at 20 °C (at pH 5))
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#### Dibutyltin dichloride (683-18-1)

BCF - Fish [1]	0.13 – 10
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Partition coefficient n-octanol/water (Log Pow)	0.97 Source: ECHA
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Partition coefficient n-octanol/water (Log Kow)	4.44
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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions.

## SECTION 14: Transport information

In accordance with DOT

### DOT

#### 14.1. UN number

2922

#### 14.2. Proper Shipping Name

Corrosive liquids, toxic, n.o.s. (Dibutyltin Diacetate)

#### Transport document description

UN2922 Corrosive liquids, toxic, n.o.s. (Dibutyltin Diacetate), 8 (6.1), II

#### 14.3. Transport hazard class(es)

8 (6.1)



Not applicable

#### 14.4. Packing group

II

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### DOT

#### 14.5. Environmental hazards

Dangerous for the environment: Yes

This container may be hazardous when empty, All labeled hazard precautions must be observed, Do not cut, puncture, or weld on or near container, Do not reuse empty container without commercial cleaning or reconditioning.

#### 14.6. Special precautions for user

##### DOT

UN-No.(DOT)	: UN2922
DOT Special Provisions (49 CFR 172.102)	: B3 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks and DOT 57 portable tanks are not authorized. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3) TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 202
DOT Packaging Bulk (49 CFR 173.xxx)	: 243
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 30 L
DOT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Dibutyltin diacetate	1067-33-0	Present	Active	
Dibutyltin dichloride	683-18-1	Present	Active	

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This product or mixture is NOT known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

### 15.2. International regulations

#### CANADA

##### Cotin™ 227

Listed on the Canadian DSL (Domestic Substances List)

##### Dibutyltin diacetate (1067-33-0)

Listed on the Canadian DSL (Domestic Substances List)

##### Dibutyltin dichloride (683-18-1)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

##### Cotin™ 227

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

##### Dibutyltin diacetate (1067-33-0)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

##### Dibutyltin dichloride (683-18-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### National regulations

##### Cotin™ 227

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Japanese Pollutant Release and Transfer Register Law (PRTR Law)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemical Inventory)

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### Dibutyltin diacetate (1067-33-0)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Japanese Pollutant Release and Transfer Register Law (PRTR Law)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemical Inventory)

### Dibutyltin dichloride (683-18-1)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Japanese Poisonous and Deleterious Substances Control Law  
Japanese Pollutant Release and Transfer Register Law (PRTR Law)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemical Inventory)

### 15.3. US State regulations

#### Cotin™ 227

State or local regulations	U.S. - Massachusetts - Right To Know List
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California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

### SECTION 16: Other information

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#### Full text of H-phrases

H300	Fatal if swallowed
H301	Toxic if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H330	Fatal if inhaled
H341	Suspected of causing genetic defects
H360	May damage fertility or the unborn child

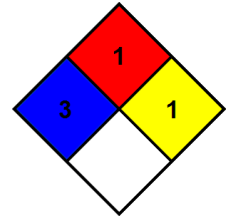
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Full text of H-phrases	
H370	Causes damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.  
NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.  
NFPA reactivity : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.



Hazard Rating  
Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given  
: \* - Chronic (long-term) health effects may result from repeated overexposure  
Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)  
Physical : 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

Indication of changes:
All chapters have been modified since the previous version (new software).

Safety Data Sheet (SDS), USA

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