

### SECTION 1: Identification

#### 1.1. Identification

Product form	: Substance
Trade name	: Cotin™ 430
CAS-No.	: 3648-18-8
Formula	: C40H80O4Sn
Synonyms	: Dioctylbis[(1-oxododecyl)oxy]-stannane

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

Use of the substance/mixture	: Catalyst
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#### 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 CHEMTREC (International): +1-703-527-3887
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### SECTION 2: Hazard(s) identification

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

##### GHS US classification

Reproductive toxicity Category 1B	H360	May damage fertility or the unborn child
Specific target organ toxicity (repeated exposure) Category 1	H372	Causes damage to organs through prolonged or repeated exposure

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
Hazard statements (GHS US)	: H360 - May damage fertility or the unborn child H372 - Causes damage to organs through prolonged or repeated exposure
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 P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective gloves, protective clothing, eye protection, face protection.

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P264 - Wash hands thoroughly after handling.  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
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	Product identifier	%	GHS US classification
Dioctyltin dilaurate (Main constituent)	CAS-No.: 3648-18-8	≈ 100	Repr. 1B, H360 STOT RE 1, H372

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 : First aider: Pay attention to self-protection. Do not inhale vapor. Wear gloves.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Get immediate medical advice/attention.  
First-aid measures after skin contact : Wash immediately with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.  
First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Get immediate medical advice/attention.  
First-aid measures after ingestion : Rinse mouth out with water. Do not induce vomiting. Immediately call a poison center or doctor/physician.

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

Symptoms/effects : May cause damage to organs (thymus) through prolonged or repeated exposure.

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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

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

Suitable extinguishing media : Water spray. Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical.  
Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

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### 5.2. Specific hazards arising from the chemical

Fire hazard	: Not flammable.
Explosion hazard	: Product is not explosive.
Hazardous decomposition products in case of fire	: Carbon dioxide. Carbon monoxide. Tin (organic compounds).

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

Firefighting instructions	: Fight fire with normal precautions from a reasonable distance. Avoid contact with skin and eyes.
Protection during firefighting	: Wear recommended personal protective equipment. Complete protective clothing. Self-contained breathing apparatus.

## SECTION 6: Accidental release measures

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

General measures	: Ventilate spillage area. Mark out the contaminated area with signs and prevent access to unauthorized personnel.
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#### 6.1.1. For non-emergency personnel

Emergency procedures	: Do not get in eyes, on skin, or on clothing. Avoid breathing dust/fume/gas/mist/vapors/spray. Evacuate unnecessary personnel.
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#### 6.1.2. For emergency responders

Emergency procedures	: Do not attempt to take action without suitable protective equipment.
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### 6.2. Environmental precautions

Do not allow product to spread into the environment. Prevent entry to sewers and public waters.

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

For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Absorb spilled material with sand or earth. Shovel in to suitable and closed container for disposal. Wash contaminated area with large amounts of water.
Other information	: Collect all waste in suitable and labeled containers and dispose according to local legislation.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For waste disposal after cleaning, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Wear personal protective equipment. Avoid any direct contact with the product.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

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

Storage conditions	: Store in a dry place. Store in a closed container. Store in a well-ventilated place.
Incompatible products	: Strong acids. Strong bases. Strong oxidizers.
Incompatible materials	: None known.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Cotin™ 430 (3648-18-8)	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Tin, organic compounds, as Sn
ACGIH OEL TWA	0.1 mg/m <sup>3</sup> Tin (organic compounds)
ACGIH OEL STEL	0.2 mg/m <sup>3</sup> Tin (organic compounds)
Remark (ACGIH)	TLV® Basis: Eye & URT irr; headache; nausea; CNS & immune eff. Notations: Skin; A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2022
<b>USA - OSHA - Occupational Exposure Limits</b>	
OSHA PEL (TWA) [1]	0.1 mg/m <sup>3</sup> Tin (organic compounds)
<b>USA - NIOSH - Occupational Exposure Limits</b>	
NIOSH REL (TWA)	0.1 mg/m <sup>3</sup> Tin (organic compounds)
Remark (NIOSH)	Skin notation

#### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Provide local exhaust or general room ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
- Environmental exposure controls : Avoid release to the environment. Prevent entry to sewers and public waters.

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

<b>Hand protection:</b>
Chemical resistant gloves (according to European standard EN 374 or equivalent). Neoprene protective gloves. Nitrile rubber gloves. Protective gloves made of PVC
<b>Eye protection:</b>
Chemical goggles or safety glasses
<b>Skin and body protection:</b>
Chemical resistant safety shoes. Long sleeved protective clothing
<b>Respiratory protection:</b>
In case of inadequate ventilation wear respiratory protection.

### SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Clear to light yellow.
Color	: pale yellow
Odor	: Mild odor
Odor threshold	: No data available
pH	: 4.5 – 6.5 Aqueous solution

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Melting point	: No data available
Freezing point	: 2 °C
Boiling point	: 674 °C
Flash point	: 198 °C (Closed cup)
Relative evaporation rate (butyl acetate=1)	: < 1
Flammability (solid, gas)	: No data available
Vapor pressure	: 0.002 Pa (25°C)
Relative vapor density at 20 °C	: > 1
Relative density	: No data available
Density	: 0.998 g/cm <sup>3</sup>
Solubility	: insoluble in water.
Partition coefficient n-octanol/water (Log Pow)	: 9.26
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 27.796 mm <sup>2</sup> /s
Viscosity, dynamic	: 27.74 mPa.s
Explosion limits	: No data available
Explosive properties	: Product is not explosive.
Oxidizing properties	: No.

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known.

### 10.2. Chemical stability

The product is stable at normal handling and storage conditions.

### 10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

### 10.4. Conditions to avoid

Overheating. Open flame. Water, humidity. Moisture.

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Tin (organic compounds).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified (No data available)

#### Cotin™ 430 (3648-18-8)

LD50 oral rat	6000 mg/kg
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Cotin™ 430 (3648-18-8)	
LD50 dermal rat	> 2000 mg/kg
ATE US (oral)	6000 mg/kg body weight
Skin corrosion/irritation	: Not classified (OECD 439 method) pH: 4.5 – 6.5 Aqueous solution
Serious eye damage/irritation	: Slightly irritant but not relevant for classification (OECD 405 method) pH: 4.5 – 6.5 Aqueous solution
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified No test data is available Not listed (IARC, NTP, US OSHA)
Reproductive toxicity	: May damage fertility or the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Viscosity, kinematic	: 27.796 mm <sup>2</sup> /s
Symptoms/effects	: May cause damage to organs (thymus) through prolonged or repeated exposure.

## SECTION 12: Ecological information

### 12.1. Toxicity

No additional information available

### 12.2. Persistence and degradability

Cotin™ 430 (3648-18-8)	
Persistence and degradability	Not readily biodegradable. Hydrolyses.

### 12.3. Bioaccumulative potential

Cotin™ 430 (3648-18-8)	
Partition coefficient n-octanol/water (Log Kow)	9.26
Bioaccumulative potential	Bioaccumulation is not expected to occur.

### 12.4. Mobility in soil

Cotin™ 430 (3648-18-8)	
Mobility in soil	Not established

### 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.

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Sewage disposal recommendations : Do not dispose of waste into sewer.  
Product/Packaging disposal recommendations : Dispose of contents or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
<b>14.1. UN number</b>		
Not regulated for transport		
<b>14.2. Proper Shipping Name</b>		
Not applicable	Not applicable	Not applicable
<b>Transport document description</b>		
Not applicable	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>		
Not applicable	Not applicable	Not applicable
<b>14.4. Packing group</b>		
Not applicable	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>		
Not applicable	Not applicable	Not applicable
No supplementary information available		

### 14.6. Special precautions for user

#### DOT

No data available

#### IMDG

No data available

#### IATA

No data available

### 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
Diocetyl tin dilaurate	3648-18-8	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™ 430 (3648-18-8)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

##### Cotin™ 430 (3648-18-8)

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

#### National regulations

##### Cotin™ 430 (3648-18-8)

Listed in 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)

### 15.3. US State regulations

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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Revision date : 07/26/2022

Other information : ™ Trademark owned by or licensed to the Aurorium group of companies, registered in the United States or elsewhere.

#### Full text of H-phrases

H360	May damage fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure

NFPA health hazard

: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

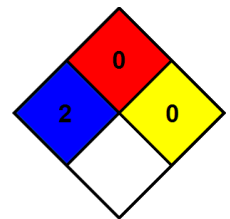
NFPA fire hazard

: 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.

Hazard Rating





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Health	: 2 Moderate Hazard - Temporary or minor injury may occur
	: * - Chronic (long-term) health effects may result from repeated overexposure
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

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

Safety Data Sheet (SDS), USA

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