

# Safety Data Sheet

## Antimony Tin Oxide (ATO)

Revision Date: 1/10/2018

Date Issued: 4/9/2019

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY / UNDERTAKING

<b>Product name</b>	Antimony Tin Oxide
<b>Product code</b>	NO-0047
<b>CAS No.</b>	Antimony Oxide: 1309-64-4 Tin Oxide: 18282-10-5
<b>REACH No.</b>	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
<b>Identified uses</b>	Laboratory chemicals, Manufacture of substances
<b>Supplier</b>	IoLiTec Ionic Liquids Technologies GmbH Salzstrasse 184 D – 74076 Heilbronn Germany
<b>Telephone</b>	+49 (0)7131-89839-0
<b>Fax</b>	+49 (0)7131-89839-109
<b>Emergency telephone</b>	+49 (0)176-84850874
<b>Email</b>	msds@iolitec.de

### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Carcinogenicity, Category 2, H351

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### Classification (67/548/EEC or 1999/45/EC)

Limited evidence of a carcinogenic effect.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008, GHS)

Pictogram	
Signal word	Warning
Hazard statement(s )	
H351	Suspected of causing cancer.
Precautionary statement(s)	
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P202	Do not handle until all safety precautions have been read and understood.
P281	Use personal protective equipment as required
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
Caution - substance not yet tested completely.	
Supplemental Hazard Statements	none

#### Labelling (67/548/EEC or 1999/45/EC)

Hazard symbol(s)	
R-phrases(s)	
R40	Limited evidence of a carcinogenic effect.

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### S-phrase(s)

S22	Do not breathe dust.
S24/25	Avoid contact with skin and eyes.
S36/37	Wear suitable protective clothing and gloves.
S61	Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Caution - substance not yet tested completely.

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient name	Contents	Health(Class)	Risk(R/No.)
Antimony Tin Oxide (ATO)	99.99%		Substance not yet fully tested!
Tin Oxide: 90%/ Antimony Oxide: 10%			

### 4 FIRST AID MEASURES

<b>General</b>	Contaminated clothing should be removed and washed before being reused.
<b>Inhalation</b>	Move the exposed person to fresh air at once. If respiratory problems, artificial respiration/ oxygen.
<b>Ingestion</b>	Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical attention immediately.
<b>Skin</b>	Wash the skin immediately with soap and water.

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### Eyes

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

## 5 FIRE FIGHTING MEASURES

### Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide, appropriate to surrounding fire conditions.

### Protective measures in fire

Wear self contained breathing apparatus for firefighting if necessary.

## 6 ACCIDENTAL RELEASE MEASURES

### Personal precautions during spill

Wear protective clothing and avoid inhalation of powder, fume and vapor as well as skin or eye contact.

### Precautions to protect environment

Avoid washing into water courses. Avoid contaminating public drains or water supply.

### Spill cleanup methods

Avoid contact with skin or inhalation of spillage, dust or vapor, Avoid dust formation. Collect and reclaim or dispose in sealed containers in license waste. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

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### 7 HANDLING AND STORAGE

#### Handling precautions

Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

#### Storage precautions

Keep container tightly closed. Store in a cool, dry place.

### 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

#### Personal protective equipment

##### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin 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 EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Solid
<b>Color</b>	blue
<b>Density</b>	6.95 g/cm <sup>3</sup> at 20°C
<b>Solubility</b>	Insoluble in water

## 10 STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions.
<b>Conditions/materials to avoid</b>	Strong oxidizing agents, Potassium, Strong acids, Aluminum, Sodium/sodium oxides, Magnesium
<b>Hazardous Decomposition</b>	Hazardous decomposition products formed under fire conditions. - Tin/tin oxides, Antimony oxide

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### 11 TOXICOLOGICAL INFORMATION

**Acute toxicity**

no data available

**Skin corrosion/irritation**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

no data available

**Germ cell mutagenicity**

no data available

**Carcinogenicity**

no data available

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure**

no data available

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

no data available

**Potential health effects**

**Ingestion**

May be harmful if swallowed.

**Inhalation**

May be harmful if inhaled.

**Skin**

May causes irritation

**Eyes**

May causes irritation

**Additional Information**

RTECS: Not available

**Full Data on the toxicity of this product are not available. Hazardous properties cannot be excluded.**

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### 12 ECOLOGICAL INFORMATION

Do not allow material to be released to the environment without proper governmental permits.

### 13 DISPOSAL CONSIDERATIONS

**Disposal method** Contact specialist disposal companies. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle, if practical.

### 14 TRANSPORT INFORMATION

**UN number:** UN 1549

**UN proper shipping name**

ADR/RID:	ANTIMONY COMPOUND, INORGANIC, SOLID, N.O.S. (Diantimony pentoxide)
IMDG:	ANTIMONY COMPOUND, INORGANIC, SOLID, N.O.S. (Diantimony pentoxide)
IATA:	antimony compound, inorganic, solid, n.o.s. (Diantimony pentoxide)

**Transport hazard class(es)**

ADR/RID:	6.1
IMDG:	6.1
IATA:	6.1



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### Packaging group

ADR/RID: III

IMDG: III

IATA: III

## 15 REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

### Chemical Safety Assessment

no data available

### Country specific information:

#### Germany

Substance No: 979

WGK 2 - hazard to waters

Classification according to the Administrative Regulation of Substances Hazardous to Water (VwVwS)

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### 16 OTHER INFORMATION

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