# SIGMA-ALDRICH

sigma-aldrich.com

SAFETY DATA SHEET

Version 4.4 Revision Date 09/01/2016 Print Date 10/19/2018

## 1. PRODUCT AND COMPANY IDENTIFICATION

1.1	Product identifiers Product name	:	Tris(dimethylamido)antimony(III)
	Product Number Brand	:	553972 Aldrich
	CAS-No.	:	7289-92-1
1.2	Relevant identified uses o	f th	e substance or mixture and uses advised against
	Identified uses	:	Laboratory chemicals, Synthesis of substances
4.0	Details of the sumplion of t	la a	

## **1.3** Details of the supplier of the safety data sheet

Company		Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63103 USA	
Telephone Fax	:	+1 800-325-5832 +1 800-325-5052	

## 1.4 Emergency telephone number

Emergency Phone #	:	+1-703-527-3887 (CHEMTREC)
-------------------	---	----------------------------

## 2. HAZARDS IDENTIFICATION

## 2.1 Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Substances and mixtures, which in contact with water, emit flammable gases (Category 1), H260 Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 4), H332 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318 Acute aquatic toxicity (Category 2), H401 Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 2.2 GHS Label elements, including precautionary statements

Pictogram

$\forall \vee$	$\lor$ $\lor$

Signal word	Danger
Hazard statement(s)	
H260	In contact with water releases flammable gases which may ignite spontaneously.
H302 + H332	Harmful if swallowed or if inhaled
H314	Causes severe skin burns and eye damage.
H411	Toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P223	Do not allow contact with water.

Aldrich - 553972

P231 + P232	Handle under inert gas. Protect from moisture.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.
P402 + P404	Store in a dry place. Store in a closed container.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Synonyms	:	Tris(dimethylamino)antimony(III)
Formula	:	C <sub>6</sub> H <sub>18</sub> N <sub>3</sub> Sb
Molecular weight	:	253.99 g/mol
CAS-No.	:	7289-92-1
Hazardous components		

Component	Classification	Concentration
Tris(dimethylamido)antimony(III)		
	Water-react. 1; Acute Tox. 4 Skin Corr. 1B; Eye Dam. 1; Aquatic Acute 2; Aquatic Chronic 2; H260, H302 + H332, H314, H411	; <= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

## 4.1 Description of first aid measures

## General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

- **4.2 Most important symptoms and effects, both acute and delayed** The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- **4.3 Indication of any immediate medical attention and special treatment needed** No data available

## **5. FIREFIGHTING MEASURES**

#### 5.1 Extinguishing media

Suitable extinguishing media Dry powder

- 5.2 Special hazards arising from the substance or mixture No data available
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

## 6. ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

## 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

- 6.3 Methods and materials for containment and cleaning up Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water.
- 6.4 Reference to other sections

For disposal see section 13.

## 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Never allow product to get in contact with water during storage.

Handle and store under inert gas. Air, light, and moisture sensitive.

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

#### Components with workplace control parameters

Component	CAS-No.	Value	Control	Basis
			parameters	
Tris(dimethylamido) antimony(III)	7289-92-1	TWA	0.500000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

#### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

#### **Eye/face protection**

Tightly fitting safety goggles. Faceshield (8-inch minimum). 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.

#### **Body Protection**

Complete suit protecting against chemicals, Flame retardant protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) 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).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

a)	Appearance	Form: liquid
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	No data available
f)	Initial boiling point and boiling range	32 - 34 °C (90 - 93 °F) at 0.60 hPa (0.45 mmHg)
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available

k)	Vapour pressure	No data available
I)	Vapour density	No data available
m)	Relative density	1.325 g/cm3 at 25 °C (77 °F)
n)	Water solubility	No data available
o)	Partition coefficient: n- octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available
	er safety information data available	

#### **10. STABILITY AND REACTIVITY**

#### 10.1 Reactivity No data available

9.2

**10.2** Chemical stability Stable under recommended storage conditions.

- **10.3 Possibility of hazardous reactions** Reacts violently with water.
- **10.4 Conditions to avoid** Exposure to moisture
- **10.5** Incompatible materials Strong oxidizing agents
- Hazardous decomposition products
   Hazardous decomposition products formed under fire conditions. Carbon oxides, Nitrogen oxides (NOx), Antimony oxide
   Other decomposition products No data available
   In the event of fire: see section 5

## **11. TOXICOLOGICAL INFORMATION**

#### 11.1 Information on toxicological effects

#### Acute toxicity No data available

Inhalation: No data available

Dermal: No data available

No data available

#### **Skin corrosion/irritation** No data available

#### Serious eye damage/eye irritation No data available

#### **Respiratory or skin sensitisation** No data available

#### Germ cell mutagenicity

No data available

Aldrich - 553972

## Carcinogenicity

- IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### **Reproductive toxicity**

No data available

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

## Additional Information

RTECS: Not available

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea

## 12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

- **12.2 Persistence and degradability** No data available
- **12.3 Bioaccumulative potential** No data available
- 12.4 Mobility in soil No data available

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

## 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

## Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

DOT (US)

Proper	nber: 3399 shipping name: able Quantity (R	Class: 4.3 (3) Organometallic substanc Q):	Packing group: e, liquid, water-re		able (Tris(dimethyl	amido)antimony(III))	
Poison	Poison Inhalation Hazard: No						
Proper	nber: 3398 shipping name: methylamido)ar	Class: 4.3 ORGANOMETALLIC SU ttimony(III))	Packing group: BSTANCE, LIQU		EMS-No: F-G, S-N REACTIVE		
<b>IATA</b> UN nur Proper IATA P	methylamido)antin	nony(III))					
15. REGULA	TORY INFORM	ATION					
	<b>302 Compone</b> emicals in this m	nts naterial are subject to the n	reporting requiren	nents of SARA	A Title III, Section 3	302.	
	313 Compone Ilowing compone	n <b>ts</b> ents are subject to reporti	ng levels establisl	hed by SARA CAS-No.	Title III, Section 31 Revision I		
Tris(d	imethylamido)ar	ntimony(III)		7289-92-1	2007-07-0		
	<b>311/312 Hazar</b> vity Hazard, Acu	<b>ds</b> ute Health Hazard					
	Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act.						
Penns	ylvania Right 1	To Know Components					
Tris(d	CAS-No.Revision DateTris(dimethylamido)antimony(III)7289-92-12007-07-01						
New J	ersey Right To	Know Components					
Tris(d	imethylamido)ar	ntimony(III)		CAS-No. 7289-92-1	Revision I 2007-07-0		
		California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other					

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## **16. OTHER INFORMATION**

## Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
H260	In contact with water releases flammable gases which may ignite spontaneously.
H302	Harmful if swallowed.
H302 + H332	Harmful if swallowed or if inhaled
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
HMIS Rating	

3
3

Physical Hazard	2
NFPA Rating	
Health hazard:	3
Fire Hazard:	0
Reactivity Hazard:	2
Special hazard.I:	W

#### **Further information**

Copyright 2016 Sigma-Aldrich Co. LLC. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

## Preparation Information

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

Version: 4.4

Revision Date: 09/01/2016

Print Date: 10/19/2018