

# CHEMICAL PRODUCT SAFETY DATA SHEET

Prepared in accordance with GB/T 16483 and GB/T 17519.

Product name: Tin Antimony Targets

Issue date: 03-05-2019

Revision date: 07-29-2021 Version #: 02

SDS No: G27

# SECTION 1 Chemical product and company identification

锡锑目标 Chinese name of chemical

English name of chemical **Tin Antimony Targets** 

Manufacturer/Supplier Materion Advanced Materials **Address** 6070 Parkland Boulevard Mayfield Heights, OH 44124

**United States** 

Contact person Theodore Knudson

Telephone EH&S 1.216.383.4019

e-mail ehs@materion.com **Emergency telephone** See Section 16.

number

03-05-2019 Issue date 07-29-2021 Revision date Supersedes date 03-05-2019 SDS No G27

# **SECTION 2 Hazards identification**

**Emergency overview** The material as sold in solid form is generally not considered hazardous. However, if the process

involves grinding, melting, cutting or any other process that causes a release of dust or fumes,

hazardous levels of airborne particulate could be generated

GHS hazard categories

Not classified.

Label elements

**Pictograms** None. Signal word None.

Hazard statement The material as sold in solid form is generally not considered hazardous. However, if the process

involves grinding, melting, cutting or any other process that causes a release of dust or fumes,

hazardous levels of airborne particulate could be generated.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response

Wash hands after handling.

P314 Get medical advice/attention if you feel unwell.

Store away from incompatible materials. Storage

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Physical and chemical hazards The product is stable and non-reactive under normal conditions of use, storage and transport. No

unusual fire or explosion hazards noted.

Health hazards Not classified.

The product is not classified as environmentally hazardous. However, this does not exclude the **Environmental hazards** 

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Supplemental information For further information, please contact the Product Stewardship Department at +1.216.383.4019.

SDS CHINA 2697

# **SECTION 3 Composition/information on ingredients**

Substance/mixture Mixture

Chemical name	Concentration (%)	CAS Number
- 锡	95 - 97	7440-31-5
Tin		
<del></del>	3 - 5	7440-36-0
Antimony		

# **SECTION 4 First aid measures**

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms and

health effects

None known.

Personal protection for first-aid

responders

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Notes to physician Treat symptomatically.

## SECTION 5 Fire-fighting measures

**Extinguishing media** Powder. Dry sand. Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

Extinguishing media to avoid Water.

**Specific hazards** This product is not flammable.

water spray to cool unopened containers.

**Protection of fire-fighters**Use protective equipment appropriate for surrounding materials.

General fire hazards No unusual fire or explosion hazards noted. None known.

**Specific methods**Use standard firefighting procedures and consider the hazards of other involved materials.

### **SECTION 6 Accidental release measures**

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

For non-emergency

personnel

Keep unnecessary personnel away. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. For personal protection, see section 8 of

the SDS.

For emergency responders Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during

clean-up. Use personal protection recommended in Section 8 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Collect spillage.

Clean-up methods and materials and containment measures

Stop the flow of material, if this is without risk. Sweep up or vacuum up spillage and collect in

suitable container for disposal. For waste disposal, see section 13 of the SDS.

Prevention of secondary

hazards

None known.

## **SECTION 7 Handling and storage**

Handling Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good

industrial hygiene practices.

Storage Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open

flames, and high temperatures.

Product name: Tin Antimony Targets

Revision date: 07-29-2021 SDS No: G27

### SECTION 8 Exposure controls/personal protection

### **Exposure limits**

China OELs. Occupational Exposure Limits for Hazardous Agents in the Workplace, Chemical Hazardous Agents (GBZ

2.1-2007)

Material	Туре	Value	
Tin Antimony Targets	PC-TWA	0.05 mg/m3	
Components	Туре	Value	
Antimony (CAS 7440-36-0)	PC-TWA	0.5 mg/m3	

**Biological limit values**No biological exposure limits noted for the ingredient(s).

**Monitoring methods** Follow standard monitoring procedures.

**Engineering measures**Good general ventilation should be used. Ventilation rates should be matched to conditions. If

applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been

established, maintain airborne levels to an acceptable level.

Personal protective equipment

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment. **Hand protection** Wear gloves to prevent metal cuts and skin abrasions during handling.

Eye protection If contact is likely, safety glasses with side shields are recommended.

**Skin and body protection** Wear suitable protective clothing.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

### **SECTION 9 Physical and chemical properties**

**Appearance** 

Physical state Solid.
Form Solid.
Color Gray-silver
Odor None.

Odor threshold Not applicable.
pH Not applicable.

Melting point/freezing point 449.42 °F (231.9 °C) estimated / Not applicable.

Boiling point, initial boiling point,

and boiling range

Not applicable.

Flash point Not applicable.

Flammability limit - lower (%) Not applicable.

Flammability limit - lower (%)

temperature

Not applicable.

Flammability limit - upper (%)

Not applicable.

Flammability limit - upper (%) temperature

Not applicable.

Explosive limit - lower (%)

Not applicable.

Not applicable.

Explosive limit - lower (%) temperature

Explosive limit - upper (%) Not applicable.

Explosive limit - upper (%)

Not applicable.

temperature

Not applicable.

Vapor pressure Vapor density

Not applicable.

Revision date: 07-29-2021 SDS No: G27

Not applicable. Relative density

Density 7.24 g/cm3 estimated

Solubility(ies)

Solubility (water) Insoluble. Partition coefficient Not applicable. (n-octanol/water) Not applicable. **Auto-ignition temperature** Not applicable. **Decomposition temperature** Not applicable. **Evaporation rate** Not applicable.

Other data

Flammability (solid, gas)

Not explosive. **Explosive properties** Oxidizing properties Not oxidizing Viscosity Not applicable.

## SECTION 10 Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Stability Material is stable under normal conditions.

None known.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials. Incompatible materials Acids. Strong oxidizing agents. Chlorine.

Hazardous decomposition

products

No hazardous decomposition products are known.

# **SECTION 11 Toxicological information**

Not known. Acute toxicity Routes of exposure Inhalation. **Symptoms** None known.

Skin corrosion/irritation Not likely, due to the form of the product.

Serious eye damage/eye

irritation

None known.

Respiratory or skin sensitization

Not a respiratory sensitizer. Respiratory sensitization Skin sensitizer Not a skin sensitizer.

Germ cell mutagenicity Not classified. Carcinogenicity Not classified. Toxic to reproduction Not classified. Specific target organ toxicity Not classified.

following single exposure

Specific target organ toxicity

following repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effects None known.

# **SECTION 12 Ecological information**

**Ecotoxicity** Not relevant, due to the form of the product.

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulation No data available.

Mobility in soil The product is immiscible with water and will spread on the water surface. Product name: Tin Antimony Targets Revision date: 07-29-2021

SDS No: G27

Other hazardous effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

# **SECTION 13 Disposal considerations**

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

Local disposal regulations Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

# **SECTION 14 Transport information**

#### **CNDG**

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

the IBC Code

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not applicable.

### **SECTION 15 Regulatory information**

#### Law of the People's Republic of China on Prevention and Control of Occupational Diseases

#### Classification of occupational disease hazards

DUST FROM ANTIMONY AND ITS COMPOUNDS (CAS 7440-36-0)

DUST FROM TIN AND ITS COMPOUNDS (CAS 7440-31-5)

### Regulations on the Control over Safety of Dangerous Chemicals

# Catalog of Hazardous Chemicals

ANTIMONY POWDER (CAS 7440-36-0)

#### Regulations on Labor Protection in Workplaces Where Toxic Substances Are Used

### **Directory of Highly Toxic Substances**

Antimony (CAS 7440-36-0)

#### Provision on the Environmental Administration of New Chemical Substances

#### China Inventory of Existing Chemical Substances

Country(s) or region Inventory name On inventory (yes/no)\*

China Inventory of Existing Chemical Substances in China

Yes

(IECSC)

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Other regulations This safety data sheet conforms to the following laws, regulations and standards:

Measures for the Safe Use of Chemicals in Workplaces

General Rules for Preparation of Precautionary Labels for Chemicals (GB15258-2009) Regulations on Labor Protection in Workplaces Where Toxic Products Are Used

Packing Symbol of Dangerous Goods(GB190-2009)

Regulations on the Control over Safety of Dangerous Chemicals

Safety Data Sheet for Chemical Products - Content and Order of Sections (GB/T 16483-2008)

Packing - Pictorial Marking for Handling of Goods (GB/T191-2009)

#### China. National Catalogue of Hazardous Wastes

Antimony (CAS 7440-36-0)

Product name: Tin Antimony Targets

Revision date: 07-29-2021 SDS No: G27

### International regulations

**Stockholm Convention** 

Not applicable.

**Rotterdam Convention** 

Not applicable.

**Montreal Protocol** 

Not applicable.

Kyoto protocol

Not applicable.

**Basel Convention** 

Not applicable.

#### **SECTION 16 Other information**

References EPA: AQUIRE database

GB6944-2012: Classification and Code of Dangerous Goods.

GB12268-2012: List of Dangerous Goods. NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

Further information Transportation Emergency

Call Chemtrec at:

International: 703.741.5970

Spain: 900.868.538 Switzerland: 0800.564.402

**Disclaimer** This document has been prepared using data from sources considered to be technically reliable

and the information is believed to be correct. Materion makes no warranties, expressed or implied, as to the accuracy of the information contained herein. Materion cannot anticipate all conditions under which this information and its products may be used and the actual conditions of use are beyond its control. The user is responsible to evaluate all available information when using this product for any particular use and to comply with all Federal, State, Provincial and Local laws,

statutes and regulations.

Other information Revised information in Section 16.