

# SAFETY DATA SHEET

#### 1. Identification

Product identifier Antimony. pieces

Other means of identification

SDS number 1BJ **Materion Code** 1BJ

CAS number 7440-36-0

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Materion Electronic Materials

Address 6070 Parkland Blvd

Mayfield Heights, Ohio 44124

**United States** 

Telephone 1.216.383.4019

E-mail Materion-PS@materion.com Contact person Product Stewardship Director

See Section 16 **Emergency phone number** 

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Category 4 Acute toxicity, oral

> Acute toxicity, inhalation Category 4 Specific target organ toxicity, repeated Category 2

exposure

**Environmental hazards** Not classified. **OSHA** defined hazards Not classified.

Label elements



Signal word

Hazard statement Harmful if swallowed. Harmful if inhaled. May cause damage to organs through prolonged or

repeated exposure.

Precautionary statement

Prevention Wash thoroughly after handling.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Response

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention. If eye irritation persists: Get medical advice/attention.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information For further information, please contact the Product Stewardship Department at +1.800.862.4118.

SDS US Material name: Antimony. pieces 1/7

## 3. Composition/information on ingredients

#### Substances

Chemical name	Common name and synonyms	CAS number	%
Antimony		7440-36-0	100

<sup>#:</sup> This substance has been assigned Community workplace exposure limit(s).

#### 4. First-aid measures

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.

Skin contact Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.

Eye contact Do not rub eyes. Get medical attention if irritation develops and persists.

**Ingestion** Call a physician or poison control center immediately. Rinse mouth thoroughly. Do not induce

vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way

valve or other proper respiratory medical device.

Most important

symptoms/effects, acute and

delayed

Headache. Dizziness. Nausea, vomiting. Diarrhea. Irritation of eyes and mucous membranes.

Coughing. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment

needed
General information

Provide general supportive measures and treat symptomatically. Oxygen, if needed. Keep victim

warm. Keep victim under observation. Symptoms may be delayed.

In case of shortness of breath, give oxygen. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Keep victim warm.

## 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Specific hazards arising from

the chemical

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Special protective equipment

and precautions for firefighters

Fire fighting

equipment/instructions

Wear suitable protective equipment.

Water runoff can cause environmental damage.

Specific methods

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

During fire, gases hazardous to health may be formed.

General fire hazards No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

<sup>\*</sup>Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

# Methods and materials for containment and cleaning up

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). The product is immiscible with water and will spread on the water surface. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. The product is insoluble in water.

#### **Environmental precautions**

Avoid release to the environment. Refer to special instructions/safety data sheets. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

#### Precautions for safe handling

Minimize dust generation and accumulation. Do not breathe dust. Do not get this material in contact with eyes. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash thoroughly after handling. Avoid release to the environment. Do not empty into drains. Observe good industrial hygiene practices.

# Conditions for safe storage, including any incompatibilities

Store locked up. Use appropriate container to avoid environmental contamination. Store in tightly closed container. Store in a well-ventilated place. Keep away from food, drink and animal feedingstuffs. Store away from incompatible materials (see Section 10 of the SDS).

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

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UO.	USHA	i abie z-	i Permissible	Exposure Lim	IIS (PEL) I	or Air C	oniaminanis	(29 CFR 1910.1)	JUUI

Material	Туре	Value	
Antimony (CAS 7440-36-0)	PEL	0.5 mg/m3	
US. ACGIH Threshold Limit Values (1	LV)		
Material	Туре	Value	
Antimony (CAS 7440-36-0)	TWA	0.5 mg/m3	
NIOSH. Immediately Dangerous to Lit	fe or Health (IDLH) Values, as	amended	
Material	Туре	Value	
Antimony (CAS 7440-36-0)	IDLH	50 mg/m3	
US. NIOSH: Pocket Guide to Chemica	al Hazards Recommended Ex	posure Limits (REL)	
Material	Туре	Value	
Antimony (CAS 7440-36-0)	TWA	0.5 mg/m3	
US. California Code of Regulations, T	itle 8, Section 5155. Airborne	Contaminants	
Material	Туре	Value	
Antimony (CAS 7440-36-0)	PEL	0.5 mg/m3	

**Biological limit values** 

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

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.

## Individual protection measures, such as personal protective equipment

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

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing. Use of an impervious apron is recommended. Chemical resistant

gloves.

Respiratory protection Wear positive pressure self-contained breathing apparatus (SCBA). Use a NIOSH/MSHA

approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure

limits.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations Keep away from food and drink. 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.

### 9. Physical and chemical properties

Appearance Powder.

Physical state Solid.

Form Solid.

Color Not available.

Odor Not available.

Odor threshold Not available.

pH Not available.

Melting point/freezing point 1166 °F (630 °C)

Initial boiling point and boiling 2975 °F (1635 °C)

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

**Vapor pressure** <0.0000001 kPa (77 °F (25 °C))

Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

**Density** 6.68 g/cm3 estimated at 25 °C

**Explosive properties** Not explosive.

Molecular formula Sb

Molecular weight121.75 g/molOxidizing propertiesNot oxidizing.Specific gravity6.68 at 25 °C

Material name: Antimony. pieces

SDS US

1BJ Version #: 05 Revision date: 06-12-2024 Issue date: 05-18-2015

## 10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid Contact with incompatible materials.

**Incompatible materials** Acids. Strong oxidizing agents.

Hazardous decomposition No dangerous reaction known under conditions of normal use. No hazardous decomposition

**products** products are known.

## 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Fatal if inhaled.

Skin contact Causes mild skin irritation.

Eye contact Causes eye irritation.

**Ingestion** Fatal if swallowed. Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Headache. Dizziness. Nausea, vomiting. Diarrhea. Irritant effects. Coughing.

Information on toxicological effects

Acute toxicity Fatal if inhaled. Fatal if swallowed. Harmful if swallowed.

Skin corrosion/irritation Causes mild skin irritation.

Serious eye damage/eye Causes eye irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization Not available.

Germ cell mutagenicity Not available.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Not available.

Specific target organ toxicity - Not available.

single exposure

Specific target organ toxicity -

repeated exposure

May cause damage to organs. .

**Aspiration hazard** Not available.

**Chronic effects** Prolonged inhalation may be harmful.

12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Product Species Test Results

Antimony (CAS 7440-36-0)

Aquatic

Acute

Fish LC50 Sheepshead minnow (Cyprinodon > 6.2 - < 8.3 mg/l, 96 hours

variegatus)

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

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

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

## 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

and its container must be disposed of as hazardous waste. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code**The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

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). Avoid discharge into water courses or onto the ground.

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.

#### 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

#### 15. Regulatory information

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Antimony (CAS 7440-36-0) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

<sup>\*</sup> Estimates for product may be based on additional component data not shown.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Classified hazard Flammable (gases, aerosols, liquids, or solids)

**categories** Serious eye damage or eye irritation

Yes

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Chemical nameCAS number% by wt.Antimony7440-36-0100

#### Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Antimony (CAS 7440-36-0)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Water Act (CWA) Section 112(r) (40 CFR Priority pollutant Toxic pollutant

68.130)

Safe Drinking Water Act

(SDWA)

Listed.

US state regulations California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material

is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Antimony (CAS 7440-36-0)

## California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

## 16. Other information, including date of preparation or last revision

 Issue date
 05-18-2015

 Revision date
 06-12-2024

Version # 05

Further information HMIS® is a registered trade and service mark of the NPCA.

References ACGIH

EPA: AQUIRE database

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

Disclaimer This safety data sheet was prepared in accordance with the Safety Data Sheet for Chemical

Products (JIS Z 7250:2005).

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.

**Revision information** This document has undergone significant changes and should be reviewed in its entirety.