



# SAFETY DATA SHEET

MATERION

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name or designation of the mixture	Ge-Sb-Te-Se 21.1-21.1-49.3
Synonyms	None.
Document number	1SZ
Materion Code	1SZ
Issue date	18-April-2016
Version number	02
Revision date	12-January-2018
Supersedes date	18-April-2016

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Not available.
Uses advised against	None known.

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

#### Supplier

Company name	Materion Advanced Chemicals Inc.
Address	407 N. 13th Street 1316 W. St. Paul Avenue Milwaukee, WI 53233 United States
Division	Milwaukee
Telephone	414.212.0257
e-mail	advancedmaterials@materion.com
Contact person	Noreen Atkinson

### 1.4. Emergency telephone number

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

#### Health hazards

Acute toxicity, oral	Category 3
Acute toxicity, inhalation	Category 3
Specific target organ toxicity - repeated exposure	Category 2

#### Environmental hazards

Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.
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#### Hazard summary

Exposure to powder or dusts may be irritating to eyes, nose and throat. Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.

### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

Contains: Selenium, Tellurium

#### Hazard pictograms



#### Signal word

Danger

## Hazard statements

H402	The mixture does not meet the criteria for classification.
H412	Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

## Precautionary statements

### Prevention

P273	Observe good industrial hygiene practices. Avoid release to the environment.
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### Response

Wash hands after handling.

### Storage

Store away from incompatible materials.

### Disposal

Dispose of waste and residues in accordance with local authority requirements.

## Supplemental label information

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

## 2.3. Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Tellurium	40 - 60	13494-80-9 236-813-4	-	-	
<b>Classification:</b>	Acute Tox. 3;H301				
Antimony	20 - 40	7440-36-0 231-146-5	-	051-003-00-9	
<b>Classification:</b>	Aquatic Chronic 2;H411				
Selenium	2 - 10	7782-49-2 231-957-4	-	034-001-00-2	
<b>Classification:</b>	Acute Tox. 3;H301, Acute Tox. 3;H331, STOT RE 2;H373				
Other components below reportable levels	≤ 10				

#### List of abbreviations and symbols that may be used above

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Community workplace exposure limit(s).

#### Composition comments

The full text for all H-statements is displayed in section 16.

## SECTION 4: First aid measures

#### General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 4.1. Description of 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

Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

##### Ingestion

Rinse mouth. Get medical attention if symptoms occur.

#### 4.2. Most important symptoms and effects, both acute and delayed

Headache. Nausea. Dusts may irritate the respiratory tract, skin and eyes.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

#### General fire hazards

No unusual fire or explosion hazards noted.

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Foam. Dry powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

**5.2. Special hazards arising from the substance or mixture** During fire, gases hazardous to health may be formed.

**5.3. Advice for firefighters**

**Special protective equipment for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Special firefighting procedures** Move containers from fire area if you can do so without risk.

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

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. For personal protection, see section 8 of the SDS.

**For emergency responders** Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

**6.2. Environmental precautions** Avoid discharge into drains, water courses or onto the ground.

**6.3. Methods and material for containment and cleaning up** Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. 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.

**6.4. Reference to other sections** For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Minimise dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid prolonged exposure. Practice good housekeeping.

**7.2. Conditions for safe storage, including any incompatibilities** Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

**7.3. Specific end use(s)** Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Components	Type	Value	Form
Antimony (CAS 7440-36-0)	MAK	0,5 mg/m <sup>3</sup>	Inhalable fraction.
	STEL	5 mg/m <sup>3</sup>	Inhalable fraction.
Selenium (CAS 7782-49-2)	MAK	0,1 mg/m <sup>3</sup>	Inhalable fraction.
	STEL	0,3 mg/m <sup>3</sup>	Inhalable fraction.
Tellurium (CAS 13494-80-9)	MAK	0,1 mg/m <sup>3</sup>	Inhalable fraction.
	STEL	0,5 mg/m <sup>3</sup>	Inhalable fraction.

##### Belgium. Exposure Limit Values.

Components	Type	Value
Antimony (CAS 7440-36-0)	TWA	0,5 mg/m <sup>3</sup>
Selenium (CAS 7782-49-2)	TWA	0,2 mg/m <sup>3</sup>
Tellurium (CAS 13494-80-9)	TWA	0,1 mg/m <sup>3</sup>

##### Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value
Antimony (CAS 7440-36-0)	TWA	0,5 mg/m <sup>3</sup>
Selenium (CAS 7782-49-2)	TWA	0,2 mg/m <sup>3</sup>
Tellurium (CAS 13494-80-9)	TWA	0,1 mg/m <sup>3</sup>

**Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09**

Components	Type	Value
Antimony (CAS 7440-36-0)	MAC	0,5 mg/m <sup>3</sup>
Selenium (CAS 7782-49-2)	MAC	0,1 mg/m <sup>3</sup>
Tellurium (CAS 13494-80-9)	MAC	0,1 mg/m <sup>3</sup>

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended.**

Components	Type	Value
Antimony (CAS 7440-36-0)	TWA	0,5 mg/m <sup>3</sup>
Selenium (CAS 7782-49-2)	TWA	0,2 mg/m <sup>3</sup>

**Czech Republic. OELs. Government Decree 361**

Components	Type	Value
Antimony (CAS 7440-36-0)	Ceiling	1,5 mg/m <sup>3</sup>
	TWA	0,5 mg/m <sup>3</sup>
Selenium (CAS 7782-49-2)	Ceiling	0,2 mg/m <sup>3</sup>
	TWA	0,1 mg/m <sup>3</sup>
Tellurium (CAS 13494-80-9)	Ceiling	0,5 mg/m <sup>3</sup>
	TWA	0,1 mg/m <sup>3</sup>

**Denmark. Exposure Limit Values**

Components	Type	Value	Form
Tellurium (CAS 13494-80-9)	TLV	0,1 mg/m <sup>3</sup>	Dust.

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)**

Components	Type	Value
Antimony (CAS 7440-36-0)	TWA	0,5 mg/m <sup>3</sup>
Selenium (CAS 7782-49-2)	TWA	0,1 mg/m <sup>3</sup>
Tellurium (CAS 13494-80-9)	TWA	0,1 mg/m <sup>3</sup>

**Finland. Workplace Exposure Limits**

Components	Type	Value
Antimony (CAS 7440-36-0)	TWA	0,5 mg/m <sup>3</sup>
Selenium (CAS 7782-49-2)	STEL	0,3 mg/m <sup>3</sup>
	TWA	0,1 mg/m <sup>3</sup>
Tellurium (CAS 13494-80-9)	STEL	0,3 mg/m <sup>3</sup>
	TWA	0,1 mg/m <sup>3</sup>

**France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984**

Components	Type	Value
Antimony (CAS 7440-36-0)	VME	0,5 mg/m <sup>3</sup>
Tellurium (CAS 13494-80-9)	VME	0,1 mg/m <sup>3</sup>

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)**

Components	Type	Value	Form
Selenium (CAS 7782-49-2)	TWA	0,02 mg/m <sup>3</sup>	Inhalable fraction.

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

Components	Type	Value	Form
Selenium (CAS 7782-49-2)	AGW	0,05 mg/m <sup>3</sup>	Inhalable fraction.

**Greece. OELs (Decree No. 90/1999, as amended)**

Components	Type	Value
Antimony (CAS 7440-36-0)	TWA	0,5 mg/m <sup>3</sup>
Selenium (CAS 7782-49-2)	TWA	0,2 mg/m <sup>3</sup>
Tellurium (CAS 13494-80-9)	TWA	0,1 mg/m <sup>3</sup>

**Hungary. OELs. Joint Decree on Chemical Safety of Workplaces**

Components	Type	Value
Antimony (CAS 7440-36-0)	STEL	2 mg/m <sup>3</sup>
	TWA	0,5 mg/m <sup>3</sup>
Selenium (CAS 7782-49-2)	STEL	0,4 mg/m <sup>3</sup>
	TWA	0,1 mg/m <sup>3</sup>

**Iceland. OELs. Regulation 154/1999 on occupational exposure limits**

Components	Type	Value	Form
Antimony (CAS 7440-36-0)	TWA	0,5 mg/m <sup>3</sup>	Dust.
Selenium (CAS 7782-49-2)	TWA	0,1 mg/m <sup>3</sup>	
Tellurium (CAS 13494-80-9)	TWA	0,1 mg/m <sup>3</sup>	Dust.

**Ireland. Occupational Exposure Limits**

Components	Type	Value
Antimony (CAS 7440-36-0)	TWA	0,5 mg/m <sup>3</sup>
Selenium (CAS 7782-49-2)	TWA	0,1 mg/m <sup>3</sup>
Tellurium (CAS 13494-80-9)	TWA	0,1 mg/m <sup>3</sup>

**Italy. Occupational Exposure Limits**

Components	Type	Value
Antimony (CAS 7440-36-0)	TWA	0,5 mg/m <sup>3</sup>
Selenium (CAS 7782-49-2)	TWA	0,2 mg/m <sup>3</sup>
Tellurium (CAS 13494-80-9)	TWA	0,1 mg/m <sup>3</sup>

**Latvia. OELs. Occupational exposure limit values of chemical substances in work environment**

Components	Type	Value	Form
Antimony (CAS 7440-36-0)	STEL	0,5 mg/m <sup>3</sup>	Dust.
	TWA	0,2 mg/m <sup>3</sup>	Dust.
Tellurium (CAS 13494-80-9)	TWA	0,01 mg/m <sup>3</sup>	

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements**

Components	Type	Value
Antimony (CAS 7440-36-0)	TWA	0,5 mg/m <sup>3</sup>
Germanium (CAS 7440-56-4)	TWA	2 mg/m <sup>3</sup>
Selenium (CAS 7782-49-2)	TWA	0,1 mg/m <sup>3</sup>
Tellurium (CAS 13494-80-9)	TWA	0,1 mg/m <sup>3</sup>

**Netherlands. OELs (binding)**

Components	Type	Value
Antimony (CAS 7440-36-0)	TWA	0,5 mg/m <sup>3</sup>

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value
Antimony (CAS 7440-36-0)	TLV	0,5 mg/m <sup>3</sup>
Selenium (CAS 7782-49-2)	TLV	0,05 mg/m <sup>3</sup>
Tellurium (CAS 13494-80-9)	TLV	0,1 mg/m <sup>3</sup>

**Poland. MACs. Regulation regarding maximum permissible concentrations and intensities of harmful factors in the work environment, Annex 1**

Components	Type	Value
Antimony (CAS 7440-36-0)	TWA	0,5 mg/m <sup>3</sup>
Selenium (CAS 7782-49-2)	STEL	0,3 mg/m <sup>3</sup>
	TWA	0,1 mg/m <sup>3</sup>
Tellurium (CAS 13494-80-9)	STEL	0,03 mg/m <sup>3</sup>
	TWA	0,01 mg/m <sup>3</sup>

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value
Antimony (CAS 7440-36-0)	TWA	0,5 mg/m <sup>3</sup>
Selenium (CAS 7782-49-2)	TWA	0,2 mg/m <sup>3</sup>
Tellurium (CAS 13494-80-9)	TWA	0,1 mg/m <sup>3</sup>

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value
Antimony (CAS 7440-36-0)	STEL	0,5 mg/m <sup>3</sup>
	TWA	0,2 mg/m <sup>3</sup>
Germanium (CAS 7440-56-4)	STEL	5 mg/m <sup>3</sup>
	TWA	2 mg/m <sup>3</sup>
Selenium (CAS 7782-49-2)	STEL	0,2 mg/m <sup>3</sup>
	TWA	0,1 mg/m <sup>3</sup>
Tellurium (CAS 13494-80-9)	STEL	0,15 mg/m <sup>3</sup>

**Romania. OELs. Protection of workers from exposure to chemical agents at the workplace**

Components	Type	Value
	TWA	0,05 mg/m <sup>3</sup>

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

Components	Type	Value
Antimony (CAS 7440-36-0)	TWA	0,5 mg/m <sup>3</sup>
Selenium (CAS 7782-49-2)	TWA	0,1 mg/m <sup>3</sup>
Tellurium (CAS 13494-80-9)	TWA	0,1 mg/m <sup>3</sup>

**Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)**

Components	Type	Value	Form
Antimony (CAS 7440-36-0)	TWA	0,5 mg/m <sup>3</sup>	Inhalable fraction.
Selenium (CAS 7782-49-2)	TWA	0,1 mg/m <sup>3</sup>	Inhalable fraction.
Tellurium (CAS 13494-80-9)	TWA	0,1 mg/m <sup>3</sup>	Inhalable fraction.

**Spain. Occupational Exposure Limits**

Components	Type	Value
Antimony (CAS 7440-36-0)	TWA	0,5 mg/m <sup>3</sup>
Selenium (CAS 7782-49-2)	TWA	0,1 mg/m <sup>3</sup>
Tellurium (CAS 13494-80-9)	TWA	0,1 mg/m <sup>3</sup>

**Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)**

Components	Type	Value	Form
Antimony (CAS 7440-36-0)	TWA	0,25 mg/m <sup>3</sup>	Inhalable dust.
Selenium (CAS 7782-49-2)	TWA	0,1 mg/m <sup>3</sup>	Total dust.
Tellurium (CAS 13494-80-9)	TWA	0,1 mg/m <sup>3</sup>	Total dust.

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Components	Type	Value	Form
Antimony (CAS 7440-36-0)	TWA	0,5 mg/m <sup>3</sup>	Inhalable dust.
Selenium (CAS 7782-49-2)	STEL	0,16 mg/m <sup>3</sup>	Inhalable dust.
	TWA	0,02 mg/m <sup>3</sup>	Inhalable dust.
Tellurium (CAS 13494-80-9)	STEL	0,2 mg/m <sup>3</sup>	Inhalable dust.
	TWA	0,1 mg/m <sup>3</sup>	Inhalable dust.

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value
Antimony (CAS 7440-36-0)	TWA	0,5 mg/m <sup>3</sup>
Selenium (CAS 7782-49-2)	TWA	0,1 mg/m <sup>3</sup>
Tellurium (CAS 13494-80-9)	TWA	0,1 mg/m <sup>3</sup>

**Biological limit values****Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices**

Components	Value	Determinant	Specimen	Sampling time
Selenium (CAS 7782-49-2)	0,075 mg/g	Selenium	Creatinine in urine	*
	0,11 µmol/mmol	Selenium	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

**8.2. Exposure controls**

**Appropriate engineering controls** Good general ventilation (typically 10 air changes per hour) 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. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.

**Individual protection measures, such as personal protective equipment**

**General information** Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin protection**

**- Hand protection** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

**- Other** Wear suitable protective clothing.

**Respiratory protection** Wear respirator with dust filter.

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

**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.

**Environmental exposure controls** Environmental manager must be informed of all major releases.

**SECTION 9: Physical and chemical properties**

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

**Appearance**

**Physical state** Solid.

**Form** Powder.

**Colour** Not available.

**Odour** Not available.

**Odour threshold** Not available.

**pH** Not available.

**Melting point/freezing point** 180 °C (356 °F) estimated

**Initial boiling point and boiling range** 685 °C (1265 °F) estimated

**Flash point** Not available.

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not available.

**Upper/lower flammability or explosive limits**

**Flammability limit - lower (%)** Not available.

**Flammability limit - upper (%)** Not available.

**Vapour pressure** 0,00009 hPa estimated

**Vapour density** Not available.

**Relative density** Not available.

**Solubility(ies)**

**Solubility (water)** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** Not available.

**Decomposition temperature** Not available.

**Viscosity** Not available.

**Explosive properties** Not explosive.

**Oxidising properties** Not oxidising.

## 9.2. Other information

Density	6,04 g/cm <sup>3</sup> estimated
Specific gravity	6,04 estimated

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4. Conditions to avoid</b>	Contact with incompatible materials.
<b>10.5. Incompatible materials</b>	Acids. Strong oxidising agents. Chlorine.
<b>10.6. Hazardous decomposition products</b>	No hazardous decomposition products are known.

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

<b>Inhalation</b>	Dust may irritate respiratory system. Prolonged inhalation may be harmful.
<b>Skin contact</b>	Dust or powder may irritate the skin.
<b>Eye contact</b>	Dust may irritate the eyes.
<b>Ingestion</b>	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

**Symptoms** Headache. Nausea. Dusts may irritate the respiratory tract, skin and eyes.

### 11.1. Information on toxicological effects

#### Acute toxicity

Components	Species	Test results
Tellurium (CAS 13494-80-9)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	83 mg/kg

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Due to partial or complete lack of data the classification is not possible.

**Serious eye damage/eye irritation** Due to partial or complete lack of data the classification is not possible.

**Respiratory sensitisation** Due to partial or complete lack of data the classification is not possible.

**Skin sensitisation** Due to partial or complete lack of data the classification is not possible.

**Germ cell mutagenicity** Due to partial or complete lack of data the classification is not possible.

**Carcinogenicity** Due to partial or complete lack of data the classification is not possible.

**Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)**

Not listed.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Selenium (CAS 7782-49-2) 3 Not classifiable as to carcinogenicity to humans.

**Reproductive toxicity** Due to partial or complete lack of data the classification is not possible.

**Specific target organ toxicity - single exposure** Due to partial or complete lack of data the classification is not possible.

**Specific target organ toxicity - repeated exposure** Due to partial or complete lack of data the classification is not possible.

**Aspiration hazard** Due to partial or complete lack of data the classification is not possible.

**Mixture versus substance information** No information available.

**Other information** Not available.

## SECTION 12: Ecological information

**12.1. Toxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.



Components	Species	Test results
Antimony (CAS 7440-36-0)		
<b>Aquatic</b>		
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)
		6,2 - 8,3 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

<b>12.2. Persistence and degradability</b>	No data is available on the degradability of this product.
<b>12.3. Bioaccumulative potential</b>	No data available.
<b>Partition coefficient n-octanol/water (log Kow)</b>	Not available.
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	No data available.
<b>12.5. Results of PBT and vPvB assessment</b>	Not available.
<b>12.6. Other adverse effects</b>	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 12.7. Additional information

##### Estonia Dangerous substances in groundwater Data

Selenium (CAS 7782-49-2)	Selenium (Se) 5 UG/L
	Selenium (Se) 50 UG/L

##### Estonia Dangerous substances in soil Data

Antimony (CAS 7440-36-0)	Antimony (Sb) 10 mg/kg
	Antimony (Sb) 100 mg/kg
	Antimony (Sb) 20 mg/kg
Selenium (CAS 7782-49-2)	Selenium (Se) 1 mg/kg
	Selenium (Se) 20 mg/kg
	Selenium (Se) 5 mg/kg

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Residual waste</b>	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).
<b>Contaminated packaging</b>	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.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

### ADR

<b>14.1. UN number</b>	UN3288
<b>14.2. UN proper shipping name</b>	Toxic solid, inorganic, n.o.s. (Antimony)
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	6.1(PGIII)
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	6.1
<b>Hazard No. (ADR)</b>	60
<b>Tunnel restriction code</b>	E
<b>14.4. Packing group</b>	III
<b>14.5. Environmental hazards</b>	No.

**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

#### RID

**14.1. UN number** UN3288

**14.2. UN proper shipping name** Toxic solid, inorganic, n.o.s. (Antimony)

#### 14.3. Transport hazard class(es)

**Class** 6.1(PGIII)

**Subsidiary risk** -

**Label(s)** 6.1

**14.4. Packing group** III

**14.5. Environmental hazards** No.

**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

#### ADN

**14.1. UN number** UN3288

**14.2. UN proper shipping name** Toxic Solid, N.o.s. (Antimony)

#### 14.3. Transport hazard class(es)

**Class** 6.1(PGIII)

**Subsidiary risk** -

**Label(s)** 6.1

**14.4. Packing group** III

**14.5. Environmental hazards** No.

**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

#### IATA

**14.1. UN number** UN3288

**14.2. UN proper shipping name** Toxic solid, inorganic, n.o.s. (Antimony)

#### 14.3. Transport hazard class(es)

**Class** 6.1(PGIII)

**Subsidiary risk** -

**14.4. Packing group** III

**14.5. Environmental hazards** No.

**ERG Code** 6L

**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

#### Other information

**Passenger and cargo aircraft** Allowed with restrictions.

**Cargo aircraft only** Allowed with restrictions.

#### IMDG

**14.1. UN number** UN3288

**14.2. UN proper shipping name** TOXIC SOLID, INORGANIC, N.O.S. (Antimony)

#### 14.3. Transport hazard class(es)

**Class** 6.1(PGIII)

**Subsidiary risk** -

**14.4. Packing group** III

#### 14.5. Environmental hazards

**Marine pollutant** No.

**EmS** F-A, S-A

**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.



## SECTION 15: Regulatory information

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

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

#### Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

#### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Not listed.

#### Other EU regulations

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

Selenium (CAS 7782-49-2)

#### Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

#### National regulations

Follow national regulation for work with chemical agents. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended.

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

#### List of abbreviations

Not available.

#### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculator methods and test data, if available.

**Disclaimer**

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