# MATERION

# PRODUCT INFORMATION SHEET

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

1.1. Product identifier

Trade name or

Copper Zinc Targets

designation of the mixture

Registration number Document number G35
Synonyms None.

**Issue date** 08-February-2019

Version number 01

1.3. Details of the supplier of the product information sheet

**Supplier** 

**Company name** Materion Advanced Materials Germany GmbH

**Address** Borsigstrasse 10

63755 Alzenau

DE

**Division** 

**Telephone** 49.60.23.91.82.0

**e-mail** Materion.Germany@materion.com

**Contact person** Hermann Schmiing **1.4. Emergency telephone** 49.60.23.91.82.0

number

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

**Identified uses** Manufacture of computer, electronic and optical products, electrical equipment

Scientific research and development

Other: Manufacture of medical and defense equipment

**Uses advised against** Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Consumer uses: Private households (= general public = consumers)

1.3. Details of the supplier of the safety data sheet

**Supplier** 

**Company name** Materion Advanced Materials Germany GmbH

**Address** Borsigstrasse 10 63755 Alzenau

DE

**Division** 

**Telephone** 49.60.23.91.82.0

**e-mail** Materion.Germany@materion.com

**Contact person** Hermann Schmiing **1.4. Emergency telephone** 49.60.23.91.82.0

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

**Hazard summary** The products are classified as articles and, as such, do not present a physical or health hazard ir

the present form. If the products are processed or handled in ways that generate particles (dust, fume, particles and/or powder), a potential health hazard could exist and risk management

measures must be taken to minimize risk.

2.2. Label elements

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

**Contains:** Copper, Zinc **Hazard pictograms** None.

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Signal word None.

**Hazard statements** 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 statements** 

Observe good industrial hygiene practices. **Prevention** 

Response Wash hands after handling.

Storage

P405 Store locked up.

**Disposal** 

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

Refer to manufacturer/supplier for information on recovery/recycling. P502

Supplemental label

information

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

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
Copper	50 - 75	7440-50-8 231-159-6	01-2119480154-42-0080	029-019-01-X	
Classification:	STOT SE 3;H335				
Zinc	25 - 50	7440-66-6 231-175-3	-	030-001-01-9	
Classification:	Water-React. 3;H261				Т

#### **SECTION 4: First aid measures**

**General information** Not available.

4.1. Description of first aid measures

Inhalation Not available.

Skin contact Wash hands with water as a precaution. Eye contact Flush eyes with water as a precaution.

**Ingestion** Rinse mouth. Get medical advice/attention if you feel unwell.

Under normal conditions of intended use, this material does not pose a risk to health.

4.2. Most important symptoms and effects, both

acute and delayed

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 Powder. Dry sand.

media

Unsuitable extinguishing Do not use water as an extinguisher.

media

5.2. Special hazards arising

from the substance or

mixture

This product is not flammable.

5.3. Advice for firefighters

Special protective equipment for firefighters

Wear suitable protective equipment.

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.

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

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

6.2. Environmental

Wear appropriate protective equipment and clothing during clean-up. For personal protection, see

section 8 of the PIS.

For emergency

Wear appropriate protective equipment and clothing during clean-up. Use personal protection

responders

Avoid release to the environment.

recommended in Section 8 of the PIS.

precautions

6.3. Methods and material for containment and cleaning up

Clean up in accordance with all applicable regulations.

6.4. Reference to other

Not available.

sections

**SECTION 7: Handling and storage** 

7.1. Precautions for safe

handling

Wear gloves to prevent metal cuts and skin abrasions during handling. Observe good industrial

hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Keep locked up. Store away from incompatible materials (see Section 10 of the PIS).

7.3. Specific end use(s) Not available.

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

## Occupational exposure limits

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work Components **Type** Value

TWA Copper (CAS 7440-50-8) 0,1 mg/m3

**Biological limit values** 

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

**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.

Individual protection measures, such as personal protective equipment

**General information** Not available.

Eye/face protection Wear approved safety glasses, goggles, face shield and/or welder's helmet when risk of eye injury

is present, particularly during operations that generate dust, mist or fume.

Skin protection

- Hand protection Wear gloves to prevent metal cuts and skin abrasions during handling.

- Other No specific recommendations.

Respiratory protection If ventilation is insufficient, suitable respiratory protection must be provided.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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

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

remove contaminants.

**Environmental exposure** 

Inform appropriate managerial or supervisory personnel of all environmental releases.

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

## 9.1. Information on basic physical and chemical properties

**Appearance** 

Solid. **Physical state** 

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Solid. **Form** Colour Yellow. Odour None.

**Odour threshold** Not applicable. Not applicable.

Melting point/freezing point 904,44 °C (1660 °F) estimated / Not applicable.

Initial boiling point and

boiling range

Not applicable.

Flash point Not applicable. **Evaporation rate** Not applicable. Flammability (solid, gas) None known.

Upper/lower flammability or explosive limits **Explosive limit - lower (** Not applicable.

%)

Explosive limit - lower (

Not applicable.

%) temperature

Explosive limit – upper

Not applicable.

(%)

Explosive limit - upper (

%) temperature

Not applicable.

Vapour pressure Not applicable. Vapour density Not applicable. Relative density Not applicable.

Solubility(ies)

Solubility (water) Insoluble. Not applicable. Solubility (other) **Partition coefficient** Not applicable.

(n-octanol/water)

Not applicable.

**Auto-ignition temperature Decomposition temperature** Not applicable. **Viscosity** Not applicable. **Explosive properties** Not explosive. **Oxidising properties** Not oxidising.

9.2. Other information

**Density** 8,22 g/cm3 estimated

## **SECTION 10: Stability and reactivity**

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

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous No dangerous reaction known under conditions of normal use.

reactions

10.4. Conditions to avoid Contact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous

decomposition products

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

# **SECTION 11: Toxicological information**

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

Information on likely routes of exposure

**Inhalation** Not likely, due to the form of the product.

Skin contact No adverse effects due to skin contact are expected.

Eye contact Not relevant, due to the form of the product. Ingestion Expected to be a low ingestion hazard.

**Symptoms** None known.

# 11.1. Information on toxicological effects

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**Acute toxicity** None known.

Not relevant, due to the form of the product. Skin corrosion/irritation Serious eye damage/eye Not likely, due to the form of the product.

irritation

**Respiratory sensitisation** Not a respiratory sensitizer.

Skin sensitisation Not a skin sensitiser.

Germ cell mutagenicity Not classified. Carcinogenicity Not classified. Reproductive toxicity Not classified. Specific target organ toxicity Not classified.

- single exposure

Specific target organ toxicity

- repeated exposure

Not classified.

**Aspiration hazard** Mixture versus substance

information

Not an aspiration hazard. No information available.

Other information Not available.

# **SECTION 12: Ecological information**

No toxicity data noted for the ingredient(s). 12.1. Toxicity

12.2. Persistence and

degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative Not available.

potential

**Partition coefficient** Not available.

n-octanol/water (log Kow)

Not available. **Bioconcentration factor (BCF)** 12.4. Mobility in soil Not available

12.5. Results of PBT and

vPvB assessment

Not a PBT or vPvB substance or mixture.

12.6. Other adverse effects Not available

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

**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.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this methods/information 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.

**Special precautions** Dispose in accordance with all applicable regulations.

## **SECTION 14: Transport information**

## **ADR**

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

**ADN** 

14.1. - 14.6.: Not regulated as dangerous goods.

IATA

14.1. - 14.6.: Not regulated as dangerous goods.

**IMDG** 

14.1. - 14.6.: Not regulated as dangerous goods.

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# **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

Copper (CAS 7440-50-8) Zinc (CAS 7440-66-6)

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

Zinc (CAS 7440-66-6)

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

Copper (CAS 7440-50-8) Zinc (CAS 7440-66-6)

Other regulations The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP

Regulation) as amended.

**National regulations**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. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

## **SECTION 16: Other information**

List of abbreviationsNot available.ReferencesNot available.Information on evaluation<br/>method leading to theNot available.

classification of mixture Full text of any H-statements not written out in full under

**Sections 2 to 15** H261 In contact with water releases flammable gases.

H335 May cause respiratory irritation.

**Revision information** None.

**Training information** Not available.

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## Disclaimer

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