

# SAFETY DATA SHEET

Version #: 05

Issue date: 26-May-2015 Revision date: 29-May-2024 Supersedes date: 10-January-2018

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

**Registration number** 

**Synonyms** Copper(I) oxide

**Materion Code** 1GD

1.1. Product identifier

Name of the substance Copper oxide (Cu2O)

**Identification number** 029-002-00-X (Index number)

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 Electronic Materials

**Address** 6070 Parkland Blvd

Mayfield Heights, OH 44124

**United States** 

**Division** 

1.216.383.4019 **Telephone** 

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

1.4. Emergency telephone

number

1GD **Document number** 

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

The substance 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

**Health hazards** 

Acute toxicity, oral Category 4 H302 - Harmful if swallowed.

Acute toxicity, inhalation Category 4 Serious eye damage/eye irritation Category 1

**Environmental hazards** 

Hazardous to the aquatic environment, acute Category 1 M-Factor = 100.

aquatic hazard

Hazardous to the aquatic environment, Category 1 M-Factor = 10.

long-term aquatic hazard

# 2.2. Label elements

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

**Contains:** dicopper oxide; copper (I) oxide

**Hazard pictograms** 



Signal word Warning

**Hazard statements** 

Harmful if swallowed. H302

Material name: Copper oxide (Cu2O)

#### **Precautionary statements**

#### **Prevention**

Avoid breathing dust. P261

Wash thoroughly after handling. P264

Do not eat, drink or smoke when using this product. P270

Avoid release to the environment. P273 Wear eye protection/face protection. P280

Response

IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. P301 + P312

P330 Rinse mouth.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304 + P340

Immediately call a POISON CENTRE/doctor. P310

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and P305 + P351 + P338

easy to do. Continue rinsing.

P391 Collect spillage.

Store away from incompatible materials. Storage

**Disposal** 

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

Supplemental label

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

2.3. Other hazards This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

The substance is not included in the list established in accordance with REACH Article 59(1) for

having endocrine disrupting properties.

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

#### 3.1. Substances

#### **General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
dicopper oxide; copper (I) oxide	100	1317-39-1 215-270-7	-	029-002-00-X	
Classification:	Acute Tox.	4;H302;(ATE: 500 mg	g/kg bw)		

# List of abbreviations and symbols that may be used above

DSD: Directive 67/548/EEC. CLP: Regulation No. 1272/2008.

ATE: Acute toxicity estimate.

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).

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

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition comments** The full text for all H-statements is displayed in section 16. The full text for all R- and H-phrases is

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

**General information** 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.

# 4.1. Description of first aid measures

**Inhalation** Move to fresh air. Oxygen or artificial respiration if needed. Call a poison centre or doctor/physician

if you feel unwell.

displayed in section 16.

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

**Eye contact** Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Continue

rinsing. Get medical attention immediately.

Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Ingestion

IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.

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

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Dusts may irritate the respiratory tract,

skin and eyes.

Material name: Copper oxide (Cu2O)

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

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

# **SECTION 5: Firefighting measures**

**General fire hazards** No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

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

**Unsuitable extinguishing** 

None known.

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

Wear suitable protective equipment.

Special firefighting

procedures

Use water spray to cool unopened containers. Water runoff can cause environmental damage.

**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 For emergency Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear appropriate personal protective equipment.

Keep unnecessary personnel away. Ensure adequate ventilation. Avoid inhalation of dust. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

responders

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect dust using a vacuum cleaner equipped with HEPA filter. Prevent product from entering drains.

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.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13.

# **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. Do not get this material in contact with eyes. Do not taste or swallow. Avoid breathing dust. Avoid prolonged exposure. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

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

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- E1 Hazardous to the Aquatic Environment Acute (Lower-tier requirements = 100 tonnes; Upper-tier requirements = 200 tonnes)
- E1 Hazardous to the Aquatic Environment Chronic (Lower-tier requirements = 100 tonnes; Upper-tier requirements = 200 tonnes)

# 7.3. Specific end use(s)

Observe industrial sector guidance on best practices.

Material name: Copper oxide (Cu2O) SDS FU

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

# 8.1. Control parameters

# **Occupational exposure limits**

Austria. MAK List, OEL Or Material	dinance (GwV), BGBl. II, no. 184/20 Type	001, as amended Value	Form			
dicopper oxide; copper (I) oxide (CAS 1317-39-1)	MAK	1 mg/m3	Inhalable fraction.			
		0,1 mg/m3	Fume and respirable dust.			
	STEL	4 mg/m3	Inhalable fraction.			
		0,4 mg/m3	Fume and respirable dust.			
Finland. HTP-arvot, App 3 Material	., Binding Limit Values, Social Affai Type	rs and Ministry of Health Value	Form			
dicopper oxide; copper (I) oxide (CAS 1317-39-1)	TWA	0,02 mg/m3	Respirable.			
Italy. OELs (Legislative De Material	ecree n.81, 9 April 2008), as amend Type	ed Value	Form			
dicopper oxide; copper (I) oxide (CAS 1317-39-1)	TWA	1 mg/m3	Dust and mist.			
		0,2 mg/m3	Fume.			
	es de Exposición Profesional Para A	gentes Químicos, Table 1-V	/alores Límites			
Ambientales (VLAs) Material	Туре	Value	Form			
dicopper oxide; copper (I) oxide (CAS 1317-39-1)	TWA	0,01 mg/m3	Respirable fraction.			
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 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.					
<del>-</del>	es, such as personal protective equi					
General information	Use personal protective equipment as required. 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) and a face shield.					
Skin protection						
- Hand protection	Wear appropriate chemical resistant gloves.					
- Other	Wear suitable protective clothing. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.					
Respiratory protection	Wear respirator with dust filter. Dust	& vapor respirator.				
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.					
Hygiene measures	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.					

Material name: Copper oxide (Cu2O)

# **Environmental exposure**

controls

Contain spills and prevent releases and observe national regulations on emissions. Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

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

# 9.1. Information on basic physical and chemical properties

**Physical state** Solid Powder. Form Not available. Colour Odour Not available. Melting point/freezing point 1235 °C (2255 °F) **Boiling point or initial boiling** 1800 °C (3272 °F)

point and boiling range

**Flammability** Not available. Upper/lower flammability or explosive limits

**Explosive limit - lower (** 

%)

Explosive limit - upper

(%)

Not available.

Not available.

Not available. Flash point Not available. **Auto-ignition temperature Decomposition temperature** 1800 °C (3272 °F) pН Not available. Kinematic viscosity Not available.

Solubility

Not available. Solubility (water) **Partition coefficient** Not available.

(n-octanol/water) (log value)

<0,0000001 kPa (25 °C (77 °F)) Vapour pressure

Density and/or relative density

6,00 g/cm3 estimated Density

Vapour density Not available. Not available. **Particle characteristics** 

9.2. Other information

9.2.1. Information with

regard to physical hazard

classes

#### 9.2.2. Other safety characteristics

Molecular formula Cu2-0 Molecular weight 143,09 g/mol

Specific gravity

# **SECTION 10: Stability and reactivity**

10.1. Reactivity Not available.

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

Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials.

10.5. Incompatible materials None known.

10.6. Hazardous No hazardous decomposition products are known.

decomposition products

10.4. Conditions to avoid

# **SECTION 11: Toxicological information**

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

No relevant additional information available.

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#### Information on likely routes of exposure

Inhalation Dust may irritate respiratory system. Prolonged inhalation may be harmful.

Skin contact Dust or powder may irritate the skin. Due to lack of data the classification is not possible.

**Eye contact** Causes serious eye damage.

Harmful if swallowed. Harmful if swallowed. Ingestion

**Symptoms** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Permanent eye damage including blindness could result. Dusts may irritate the respiratory

tract, skin and eyes.

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute toxicity** Harmful if swallowed. Harmful if swallowed.

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

Serious eye damage/eye

irritation

Causes serious eye damage.

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. 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.

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

Mixture versus substance

information

No information available.

#### 11.2. Information on other hazards

**Endocrine disrupting** 

properties

This substance does not have endocrine disrupting properties with respect to human health, as it does not meet the assessment criteria laid out in Regulations (EC) No 1907/2006, (EU) No

2017/2100 and (EU) 2018/605.

Other information Not available.

# **SECTION 12: Ecological information**

12.1. Toxicity Very toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

12.2. Persistence and

degradability

No data is available on the degradability of this product.

12.3. Bioaccumulative

potential

No data available.

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

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

12.5. Results of PBT and

No data available.

vPvB assessment

This substance does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting

properties

This substance does not have endocrine disrupting properties with respect to the environment, as it

does not meet the assessment criteria laid out in Regulations (EC) No 1907/2006, (EU) No

2017/2100 and (EU) 2018/605.

12.7. 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.

# **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.

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**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. This material and methods/information

its container must be disposed of as hazardous waste. 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.

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

# **SECTION 14: Transport information**

#### **ADR**

14.1. UN number UN3077

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dicopper oxide; copper (I) oxide)

name

14.3. Transport hazard class(es)

Class 9 **Subsidiary risk** 9 Label(s) Hazard No. (ADR) 90 **Tunnel restriction** code

III 14.4. Packing group 14.5. Environmental Yes

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

for user

hazards

RID

14.1. UN number UN3077

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dicopper oxide; copper (I) oxide)

name

14.3. Transport hazard class(es)

Class Subsidiary risk 9 Label(s) 14.4. Packing group III 14.5. Environmental Yes

hazards

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

for user

**ADN** 

14.1. UN number UN3077

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dicopper oxide; copper (I) oxide)

name

14.3. Transport hazard class(es)

9 **Class** Subsidiary risk 9 Label(s) 14.4. Packing group III 14.5. Environmental Yes

hazards

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

for user

**IATA** 

**14.1. UN number** Not regulated as dangerous goods. 14.2. UN proper shipping Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

**Subsidiary risk** 14.4. Packing group 14.5. Environmental No.

hazards

14.6. Special precautions Not assigned.

for user

**IMDG** 

**14.1. UN number** Not regulated as dangerous goods.

Material name: Copper oxide (Cu2O) 1GD Version #: 05 Revision date: 29-May-2024 Issue date: 26-May-2015 **14.2. UN proper shipping** Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

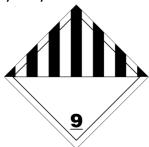
Subsidiary risk 14.4. Packing group 14.5. Environmental hazards
Marine pollutant

**nS** Not assigned.

**14.6. Special precautions** Not assigned.

for user

### ADN; ADR; RID



# Marine pollutant



**General information** I

IMDG Regulated Marine Pollutant.

# **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 (EU) 2019/1021 On persistent organic pollutants (recast), 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 dicopper oxide; copper (I) oxide (CAS 1317-39-1)

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 - Conditions of restriction given for the associated entry number should be considered

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.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended

Not listed.

Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended

Not listed.

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

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- E1 Hazardous to the Aquatic Environment Acute - E1 Hazardous to the Aquatic Environment Chronic

Other regulations This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The

> product is classified and labelled in accordance with EC directives or respective national laws. The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as

amended. 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.

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as

amended.

France regulations

**France INRS Table of Occupational Diseases** 

Not regulated.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

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

#### List of abbreviations

ADN: European Agreement Concerning the International Carriage of Dangerous Goods by Inland

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization. IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value.

vPvB: Very persistent and very bioaccumulative.

Information on evaluation method leading to the classification of mixture

References

Not available. Not applicable.

Full text of any statements, which are not written out in full under sections 2 to 15

H302 Harmful if swallowed.

**Revision information** This document has undergone significant changes and should be reviewed in its entirety. **Training information** Follow training instructions when handling this material.

Material name: Copper oxide (Cu2O)

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Further information Transportation Emergency

Call Chemtrec at: US: 800.424.9300

International: 703.741.5970 Spain: 900.868.538 Switzerland: 0800.564.402

Chemtrec's toll free, mobile-enabled number in Germany - 0800 1817059

South Korea Toll-free Number – 080-880-0468

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