# MATERION

# SAFETY DATA SHEET

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

1.1. Product identifier

Name of the substanceCopper Tungstate (CuWO4)Identification number237-022-7 (EC number)

Registration number Document number 2IL
Synonyms None.
Materion Code 2IL

Issue date11-August-2020Revision date11-August-2020

### 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 Laura Hamilton

1.4. Emergency telephone

number

Version number 02

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

Identified usesNot available.Uses advised againstNone known.

#### **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

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

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

**Hazard summary**Not classified for health hazards. However, occupational exposure to the mixture or substance(s)

may cause adverse health effects. 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.

## 2.2. Label elements

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

**Contains:** Copper Tungstate

**Hazard pictograms** 



Signal word Warning

**Hazard statements** 

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

H302 Harmful if swallowed.

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#### **Precautionary statements**

**Prevention** 

Avoid breathing dust/fume/gas/mist/spray. P261

Wear protective gloves/protective clothing/eye protection/face protection. P280

Response

Call a physician if symptoms develop or persist, IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. IF IN EYES: Rinse cautiously with water for several minuts. Remove

contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

Storage

P304 + P340

P405 Store locked up.

Disposal

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

Supplemental label information

100% of the substance consists of component(s) of unknown acute oral toxicity. 100% of the substance consists of component(s) of unknown acute dermal toxicity. 100% of the substance consists of component(s) of unknown acute hazards to the aquatic environment. 100% of the substance consists of component(s) of unknown long-term hazards to the aquatic environment. For further information, please contact the Product Stewardship Department at +1.800.862.4118.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

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

#### 3.1. Substances

**General information** 

 Chemical name	% CAS	-No. / EC No.	REACH Registration No.	Index No.	Notes
Copper Tungstate	100		-	-	
Classification:	Acute Tox. 4;H302, Skin Irrit. 2	2;H315, STO	T SE 3;H335		

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

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

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

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

# **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 into fresh air and keep at rest. If breathing has stopped, perform artificial respiration and

obtain medical help. Consult a physician for specific advice.

Skin contact Wash off immediately with soap and plenty of water. Get medical advice/attention if you feel

Exposure may cause temporary irritation, redness, or discomfort.

unwell.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Ingestion** Get medical attention.

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

media

Use fire-extinguishing media appropriate for surrounding materials. This product is not flammable.

Unsuitable extinguishing

media

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

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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 self-contained breathing apparatus and protective clothing.

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

6.2. Environmental

Keep unnecessary personnel away. 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.

precautions

The product should not be dumped in nature but collected and delivered according to agreement

with the local authorities.

6.3. Methods and material for containment and cleaning up

Ventilate the area. Stop the flow of material, if this is without risk. Following product recovery, flush

area with water.

6.4. Reference to other

sections

For personal protection, see section 8. For waste disposal, see section 13.

# **SECTION 7: Handling and storage**

7.1. Precautions for safe

handling

Avoid prolonged exposure. Keep container closed. All handling to take place in well-ventilated area.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the

SDS).

Not available. 7.3. Specific end use(s)

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Occupational exposure limits** 

No exposure limits noted for ingredient(s).

**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.

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

**General information** Wear personal protective equipment. 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.

- Other Wear suitable protective clothing. Wear suitable gloves.

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In case of insufficient ventilation, wear suitable respiratory equipment. When airborne exposures Respiratory protection

exceed or have the potential to exceed the occupational exposure limits, approved respirators must be used as specified by an Industrial Hygienist or other qualified professional. Respirator users must

be medically evaluated to determine if they are physically capable of wearing a respirator.

Quantitative and/or qualitative fit testing and respirator training must be satisfactorily completed by all personnel prior to respirator use. Users of tight fitting respirators must be clean shaven on those areas of the face where the respirator seal contacts the face. Use pressure-demand airline respirators when performing jobs with high potential exposures such as changing filters in a

baghouse air cleaning device.

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

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.

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

## 9.1. Information on basic physical and chemical properties

**Appearance** 

**Physical state** Solid. **Form** Solid.

Colour Not available. Odour Not available. **Odour threshold** Not available. Not available. Melting point/freezing point Not available. Initial boiling point and

boiling range

Not available.

Not available. Flash point **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.

Not available. Vapour pressure Vapour density Not available. Relative density Not available.

Solubility(ies)

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

(n-octanol/water)

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

9.2. Other information No relevant additional information available.

# **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

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials.

**10.5. Incompatible materials** Strong oxidising agents.

10.6. Hazardous

No hazardous decomposition products are known.

decomposition products

# **SECTION 11: Toxicological information**

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

Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

**Skin contact**No adverse effects due to skin contact are expected. **Eye contact**Direct contact with eyes may cause temporary irritation.

**Ingestion** May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

**Symptoms** Exposure may cause temporary irritation, redness, or discomfort.

# 11.1. Information on toxicological effects

Acute toxicity Not known.

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

irritation

Respiratory sensitisationDue to partial or complete lack of data the classification is not possible.Skin sensitisationDue to partial or complete lack of data the classification is not possible.Germ cell mutagenicityDue to partial or complete lack of data the classification is not possible.CarcinogenicityDue 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.

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

single exposure

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

- repeated exposure

Aspiration hazard

Specific target organ toxicity

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** Due to partial or complete lack of data the classification for hazardous to the aquatic environment,

is not possible.

12.2. Persistence and

degradability

No data is available on the degradability of this substance.

**12.3. Bioaccumulative** No data available.

potential

Partition coefficient Not available.

n-octanol/water (log Kow)

**Bioconcentration factor (BCF)** Not available. **12.4. Mobility in soil** No data available.

12.5. Results of PBT and

vPvB assessment

Not a PBT or vPvB substance or mixture.

**12.6. 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).

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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.

methods/information

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.

ΤΔΤΔ

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

**IMDG** 

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

### **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

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

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

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

Not listed.

Other regulations 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.

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

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

## **SECTION 16: Other information**

List of abbreviations Not available. References Not available.

**Training information** 

**Disclaimer** 

Follow training instructions when handling this material.

Materion Advanced Chemicals Inc. cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

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