# MATERION

# SAFETY DATA SHEET

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

1.1. Product identifier

Name of the substance Cobalt Sulfide (CoS2)

Identification number 12013-10-4 (CAS number)

**Synonyms** None.

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

Identified usesNot available.Uses advised againstNone known.

1.3. Details of the supplier of the safety data sheet

**Supplier** 

**Division** 

**Company name** Materion Advanced Chemicals Inc.

**Address** 407 N. 13th Street

1316 W. St. Paul Avenue Milwaukee, WI 53233

United States 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

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

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

**Health hazards** 

Carcinogenicity Category 2 H351 - Suspected of causing

cancer.

**Hazard summary** 

**Physical hazards**Not classified for physical hazards. **Health hazards**Not classified for health hazards.

**Environmental hazards** Not classified for hazards to the environment.

Specific hazardsNot available.Main symptomsNot available.

2.2. Label elements

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

**Contains:** Cobalt sulphide

Hazard pictograms None.

Signal word Warning

**Hazard statements** 

H351 Suspected of causing cancer.

**Precautionary statements** 

**Prevention** 

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P281 Use personal protective equipment as required.

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Response

P308 + P313 IF exposed or concerned: Get medical advice/attention.

**Storage** 

P405 Store locked up.

**Disposal** 

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

Supplemental label

information

None.

**2.3. Other hazards** None known.

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

#### 3.1. Substances

#### **General information**

Chemical name % CAS-No. / EC No. REACH Registration No. INDEX No. Notes

Cobalt sulphide 100 12013-10-4 - -

235-751-5

Classification: DSD: -

**CLP:** Carc. 2;H351

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

**General information** Not available.

4.1. Description of first aid measures

InhalationNot available.Skin contactNot available.Eye contactNot available.IngestionNot available.4.2. Most importantNot available.

symptoms and effects, both

acute and delayed

4.3. Indication of any

immediate medical attention and special treatment

needed

Not available.

## **SECTION 5: Firefighting measures**

**General fire hazards** Not available.

5.1. Extinguishing media

Suitable extinguishing

Not available.

media

**Unsuitable extinguishing** 

Not available.

media

5.2. Special hazards arising

Not available.

from the substance or

mixture

5.3. Advice for firefighters

Special protective equipment for firefighters

Not available.

# **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

Not available.

personnel

For emergency responders

Not available.

6.2. Environmental

Not available.

precautions

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6.3. Methods and material for Not available.

containment and cleaning up

6.4. Reference to other sections

Not available.

# **SECTION 7: Handling and storage**

7.1. Precautions for safe

Not available.

handling

7.2. Conditions for safe storage, including any

Not available.

incompatibilities

7.3. Specific end use(s) Not available.

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

### 8.1. Control parameters

**Occupational exposure limits** 

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

Cobalt sulphide (CAS TWA 0,02 mg/m3

12013-10-4)

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring** 

procedures

Not available.

**Derived no-effect level** 

(DNEL)

Not available.

**Predicted no effect** 

concentrations (PNECs)

Not available.

8.2. Exposure controls

**Appropriate engineering** 

controls

Not available.

Individual protection measures, such as personal protective equipment

**General information** Not available. Eye/face protection Not available.

Skin protection

- Hand protection Not available. - Other Not available. Not available. Respiratory protection Thermal hazards Not available. Not available. **Hygiene measures Environmental exposure** Not available.

controls

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

## 9.1. Information on basic physical and chemical properties

**Appearance** 

Form

**Physical state** Solid

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

boiling range

Not available. Flash point **Evaporation rate** Not available. Flammability (solid, gas) Not applicable.

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Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)

Flammability limit -

Not available.

upper (%)

< 0 kPa at 25 °C Vapour pressure Vapour density Not applicable. Relative density Not applicable.

Solubility(ies)

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

(n-octanol/water)

**Auto-ignition temperature** Not available. **Decomposition temperature** Not available. Not available. **Viscosity Explosive properties** Not available. Not applicable. **Oxidizing properties** 

9.2. Other information

**Molecular formula** CoS2

# **SECTION 10: Stability and reactivity**

10.1. Reactivity Not available. 10.2. Chemical stability Not available. 10.3. Possibility of hazardous Not available.

reactions

10.4. Conditions to avoid Not available. 10.5. Incompatible materials Not available. 10.6. Hazardous Not available.

decomposition products

## **SECTION 11: Toxicological information**

**General information** Not available. Information on likely routes of exposure Ingestion Not available. **Inhalation** Not available. Skin contact Not available.

Eye contact Not available. **Symptoms** Not available.

11.1. Information on toxicological effects **Acute toxicity** No data available.

Skin corrosion/irritation Serious eye damage/eye Not available. Not available.

irritation

Respiratory sensitisation Not available. Skin sensitisation Not available. Germ cell mutagenicity Not available.

Carcinogenicity

# IARC Monographs. Overall Evaluation of Carcinogenicity

Cobalt sulphide (CAS 12013-10-4) 2B Possibly carcinogenic to humans.

Reproductive toxicity Not available. Specific target organ toxicity Not available.

- single exposure

Specific target organ toxicity Not available.

- repeated exposure

**Aspiration hazard** Not available.

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Mixture versus substance

information

Not available.

Other information

Not available.

# **SECTION 12: Ecological information**

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

12.2. Persistence and

degradability

Not available.

12.3. Bioaccumulative

Not available.

potential

**Partition coefficient** Not available.

n-octanol/water (log Kow)

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

12.5. Results of PBT

Not a PBT or vPvB substance or mixture.

and vPvB assessment

12.6. Other adverse effects Not available.

## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Not available. Residual waste **Packaging** Not available. Not available. **EU** waste code

## **SECTION 14: Transport information**

**ADR** 

Not regulated as dangerous goods.

**RID** 

Not regulated as dangerous goods.

**ADN** 

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

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

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V Not listed.

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

Not listed

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA Not listed.

## **Authorisations**

Material name: Cobalt Sulfide (CoS2) SDS PORTUGAL Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

#### **Restrictions on use**

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use Not regulated.

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

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not listed.

## Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Not listed.

Directive 94/33/EC on the protection of young people at work

Not listed.

Not available. **National regulations** 15.2. Chemical safety Not available.

assessment

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

List of abbreviations Not available. Not available. References **Information on evaluation** Not available. method leading to the

classification of mixture

Full text of any statements or **R-phrases and H-statements** 

H351 Suspected of causing cancer.

under Sections 2 to 15

**Revision information** None.

**Training information** Not available.

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