



MATERION

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance/preparation	Cobalt Sulfide (CoS2)
Version No.	01
Issue date	23-April-2015
CAS #	12013-10-4
SDS Number	C-MSDS0072
Manufacturer information	Materion Advanced Chemicals Inc. 407 N. 13th Street 1316 W. St. Paul Avenue Milwaukee, WI 53233 United States advancedmaterials@materion.com 414.212.0257

2. HAZARDS IDENTIFICATION

Physical hazards	Not classified as a physical hazard.
Health hazards	Not classified as a health hazard.
Environmental hazards	Not classified as an environmental hazard.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent	EC-No.	Classification
Cobalt sulphide	12013-10-4	100	235-751-5	

4. FIRST-AID MEASURES

5. FIRE-FIGHTING MEASURES

6. ACCIDENTAL RELEASE MEASURES

7. HANDLING AND STORAGE

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

US. ACGIH Threshold Limit Values

Material	Type	Value
Cobalt sulphide (CAS 12013-10-4)	TWA	0,02 mg/m3

Biological limit values

ACGIH Biological Exposure Indices

Material	Value	Determinant	Specimen	Sampling time
Cobalt sulphide (CAS 12013-10-4)	15 µg/l	Cobalt	Urine	*
	1 µg/l	Cobalt	Blood	*

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

Recommended monitoring procedures

Additional exposure data Not available.

Personal protective equipment

Skin and body protection Not available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state	Solid.
Form	Not available.
Colour	Not available.
Odour	Not applicable.
Odour threshold	Not applicable.
pH	Not applicable.
Boiling point	Not available.
Flash point	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapour pressure	< 0 kPa at 25 °C
Relative density	Not applicable.
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Viscosity	Not available.
Vapour density	Not applicable.
Evaporation rate	Not available.
Melting point/freezing point	Not available.
Auto-ignition temperature	Not available.
VOC	Not available.
Molecular formula	CoS2

10. STABILITY AND REACTIVITY

Conditions to avoid	Not available.
Hazardous decomposition products	Not available.

11. TOXICOLOGICAL INFORMATION

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Cobalt sulphide (CAS 12013-10-4)

2B Possibly carcinogenic to humans.

12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

14. TRANSPORT INFORMATION

ADR

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

15. REGULATORY INFORMATION

Labeling

Contains	Cobalt sulphide
EC Number	235-751-5
R-phrases(s)	None.
S-phrases(s)	None.

16. OTHER INFORMATION