



SAFETY DATA SHEET

MATERION

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

1.1. Product identifier

Name of the substance Cadmium sulfide (CdS) powder
Identification number 048-010-00-4 (Index number)
Registration number -
Document number 1FA
Synonyms CADMIUMSULFIDE * Cadmium sulfide (CdS)
Materion Code 1FA
Issue date 11-May-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 01

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

Identified uses Not available.
Uses advised against None known.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Health hazards

Acute toxicity, oral	Category 4	
Germ cell mutagenicity	Category 2	H341 - Suspected of causing genetic defects.
Carcinogenicity	Category 1B	
Reproductive toxicity (fertility, the unborn child)	Category 2	H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child.
Specific target organ toxicity - repeated exposure	Category 1	

Environmental hazards

Hazardous to the aquatic environment, acute aquatic hazard	Category 1
Hazardous to the aquatic environment, long-term aquatic hazard	Category 4

Hazard summary Causes damage to organs through prolonged or repeated exposure.

2.2. Label elements

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

Contains: Cadmium sulfide (CdS) powder

Hazard pictograms



Signal word

Danger

Hazard statements

H301	Toxic if swallowed.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H412	Harmful to aquatic life with long lasting effects.
H350	May cause cancer.
H341	Suspected of causing genetic defects.

Precautionary statements

Prevention

P201	Obtain special instructions before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P270	Do not eat, drink or smoke when using this product.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P260	Do not breathe dust.
P202	Do not handle until all safety precautions have been read and understood.
P201 + P202	Before use, obtain special instructions and learn how to work with these products safely.

Response

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE/doctor.
P330	Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P308 + P313	IF exposed or concerned: Get medical advice/attention.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P311	IF exposed or concerned: Call a POISON CENTRE/doctor.
P391	Collect spillage.
P362	Take off contaminated clothing and wash before reuse.

Storage

P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
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Disposal

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

100 % of the mixture consists of component(s) of unknown acute dermal toxicity.
For further information, please contact the Product Stewardship Department at +1.800.862.4118.

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
Cadmium sulfide (CdS) powder	100	1306-23-6 215-147-8	-	048-010-00-4	
Classification:	Acute Tox. 3;H301, Muta. 2;H341, Carc. 1A;H350, Repr. 2;H361fd, Aquatic Chronic 3;H412				1

List of abbreviations and symbols that may be used above

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

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

#: This substance has been assigned Community 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.

Composition comments

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

SECTION 4: First aid measures

General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (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. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
4.2. Most important symptoms and effects, both acute and delayed	Prolonged exposure may cause chronic effects.
4.3. Indication of any immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. 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 (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
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	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
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	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Local authorities should be advised if significant spillages cannot be contained. Ensure adequate ventilation. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid generation and spreading of dust. Avoid inhalation of dust.
For emergency responders	Keep unnecessary personnel away.
6.2. Environmental precautions	Avoid release to the environment. Refer to special instructions/safety data sheets. Avoid discharge into drains, water courses or onto the ground. Do not contaminate water. Prevent further leakage or spillage if safe to do so. Contact local authorities in case of spillage to drain/aquatic environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Avoid release to the environment.
6.3. Methods and material for containment and cleaning up	Prevent product from entering drains. Large Spills: Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers.
6.4. Reference to other sections	Not available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Store in original tightly closed container.

7.3. Specific end use(s)

Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. TRK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001

Material	Type	Value	Form
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	STEL	0,06 mg/m ³	Inhalable fraction.
	TWA	0,015 mg/m ³	Inhalable fraction.

Belgium. Exposure Limit Values.

Material	Type	Value	Form
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	TWA	0,01 mg/m ³	Inhalable particles.
		0,002 mg/m ³	Respirable particles.

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

Material	Type	Value
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	TWA	0,05 mg/m ³

Croatia. Dangerous Substance Exposure Limit Values in the Workplace (ELVs), Annexes 1 and 2, Narodne Novine, 13/09

Material	Type	Value	Form
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	MAC	0,03 mg/m ³	Respirable dust.

Czech Republic. OELs. Government Decree 361

Material	Type	Value
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	Ceiling	0,1 mg/m ³
	TWA	0,05 mg/m ³

Denmark. Exposure Limit Values

Material	Type	Value
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	TLV	0,005 mg/m ³

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Material	Type	Value	Form
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	TWA	0,05 mg/m ³	Total dust.
		0,01 mg/m ³	Respirable dust.

Finland. Workplace Exposure Limits

Material	Type	Value	Form
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	TWA	0,004 mg/m ³	Respirable.

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Material	Type	Value	
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	VME	0,05 mg/m ³	
Regulatory status: Indicative limit (VL)			
Greece. OELs (Decree No. 90/1999, as amended)			
Material	Type	Value	
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	STEL	0,1 mg/m ³	
	TWA	0,025 mg/m ³	
Hungary. OELs. Joint Decree on Chemical Safety of Workplaces			
Material	Type	Value	
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	Ceiling	0,015 mg/m ³	
Iceland. OELs. Regulation 154/1999 on occupational exposure limits			
Material	Type	Value	Form
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	TWA	0,01 mg/m ³	Dust and fume.
Ireland. Occupational Exposure Limits			
Material	Type	Value	Form
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	TWA	0,03 mg/m ³	Respirable dust.
Italy. Occupational Exposure Limits			
Material	Type	Value	Form
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	TWA	0,01 mg/m ³	
		0,002 mg/m ³	Respirable fraction.
Lithuania. OELs. Limit Values for Chemical Substances, General Requirements			
Material	Type	Value	Form
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	TWA	0,05 mg/m ³	Inhalable fraction.
		0,01 mg/m ³	Respirable fraction.
Netherlands. OELs (binding)			
Material	Type	Value	
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	TWA	0,004 mg/m ³	
Norway. Administrative Norms for Contaminants in the Workplace			
Material	Type	Value	
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	TLV	0,05 mg/m ³	
Ordinance of the Minister of Labour and Social Policy on 6 June 2014 on the maximum permissible concentrations and intensities of harmful health factors in the work environment, Journal of Laws 2014, item 817			
Material	Type	Value	Form
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	TWA	0,01 mg/m ³	Inhalable fraction.
		0,002 mg/m ³	Respirable fraction.
Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)			
Material	Type	Value	Form
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	TWA	0,01 mg/m ³	
		0,002 mg/m ³	Respirable fraction.

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Material	Type	Value
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	TWA	0,05 mg/m ³

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

Material	Type	Value	Form
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	TWA	0,015 mg/m ³	Dust/aerosol, inhalable.

Spain. Carcinogens and Mutagens with Limit Values (Table 2)

Material	Type	Value	Form
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	TWA	0,01 mg/m ³	Inhalable fraction.
		0,002 mg/m ³	Respirable fraction.

Spain. Occupational Exposure Limits

Material	Type	Value	Form
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	TWA	0,01 mg/m ³	Inhalable fraction.
		0,002 mg/m ³	Respirable fraction.

Sweden. OELs. Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2015:7)

Material	Type	Value	Form
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	TWA	0,02 mg/m ³	Total dust.
		0,002 mg/m ³	Respirable dust.

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Material	Type	Value	Form
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	TWA	0,015 mg/m ³	Inhalable fraction.
		0,004 mg/m ³	Respirable fraction.

UK. EH40 Workplace Exposure Limits (WELs)

Material	Type	Value	Form
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	TWA	0,03 mg/m ³	Respirable dust.

Biological limit values**Finland. HTP-arvot, App 2., Biological Limit Values, (BRA/BGV), Social Affairs and Ministry of Health**

Material	Value	Determinant	Specimen	Sampling Time
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	20 nmol/l	Cadmium	Urine	*

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

France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS, ND 2065)

Material	Value	Determinant	Specimen	Sampling Time
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	5 µg/g	Cadmium	Creatinine in urine	*
	5 µg/l	Cadmium	Blood	*

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

Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices

Material	Value	Determinant	Specimen	Sampling Time
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	10 µg/l	cadmium	Blood	*
	0,01 mg/g	cadmium	Creatinine in urine	*
	0,09 µmol/l	cadmium	Blood	*

Hungary. Chemical Safety at Workplace Ordinance Joint Decree No. 25/2000 (Annex 2): Permissible limit values of biological exposure (effect) indices

Material	Value	Determinant	Specimen	Sampling Time
	0,01 µmol/mmol	cadmium	Creatinine in urine	*

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

Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2

Material	Value	Determinant	Specimen	Sampling Time
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	4,7 µg/g	Cadmium	Creatinine in urine	*
	7 µg/l	Cadmium	Urine	*

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

Spain. Biological Limit Values (VLBs), Occupational Exposure Limits for Chemical Agents, Table 4

Material	Value	Determinant	Specimen	Sampling Time
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	2 µg/g	Cadmio	Creatinine in urine	*
	5 µg/l	Cadmio	Blood	*

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

Switzerland. BAT-Werte (Biological Limit Values in the Workplace as per SUVA)

Material	Value	Determinant	Specimen	Sampling Time
Cadmium sulfide (CdS) powder (CAS 1306-23-6)	5 µg/g	Cadmium	Creatinine in urine	*

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

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 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 If contact is likely, safety glasses with side shields are recommended.

Skin protection

- **Hand protection** Wear appropriate chemical resistant gloves.

- **Other** Use of an impervious apron is recommended.

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

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Observe any medical surveillance requirements. Wash hands after handling and before eating. Keep away from food and drink.

Environmental exposure controls 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	Solid.
Form	Powder.
Colour	Not available.
Odour	Not available.

Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	1750 °C (3182 °F)
Initial boiling point and boiling range	Not available.
Flash point	Not available.
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.
Vapour pressure	< 0,0000001 kPa (25 °C (77 °F))
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.

9.2. Other information

Density	4,50 g/cm ³ 4,82 g/cm ³
Molecular formula	Cd-S
Molecular weight	144,48 g/mol
Specific gravity	4,5 4,82

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	Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidising agents.
10.6. Hazardous decomposition products	No hazardous decomposition products are known.

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	Harmful if swallowed.

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

11.1. Information on toxicological effects

Acute toxicity	Harmful if swallowed.
Skin corrosion/irritation	Due to partial or complete lack of data the classification is not possible.
Serious eye damage/eye irritation	Due to partial or complete lack of data the classification is not possible.

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	Suspected of causing genetic defects.
Carcinogenicity	May cause cancer.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Cadmium sulfide (CdS) powder (CAS 1306-23-6)

IARC Monographs. Overall Evaluation of Carcinogenicity

Cadmium sulfide (CdS) powder (CAS 1306-23-6) 1 Carcinogenic to humans.

Reproductive toxicity	Suspected of damaging fertility. Suspected of damaging the unborn child.
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	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	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 Very toxic to aquatic life. May cause long lasting harmful effects to aquatic life.

Product	Species	Test Results
Cadmium sulfide (CdS) powder (CAS 1306-23-6)		
Aquatic		
Fish	LC50	Fathead minnow (Pimephales promelas) 0,108 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

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 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.

12.7. Additional information

Estonia Dangerous substances in groundwater Data

Cadmium sulfide (CdS) powder (CAS 1306-23-6) Cadmium (Cd) 1 ug/l
Cadmium (Cd) 10 ug/l

Estonia Dangerous substances in soil Data

Cadmium sulfide (CdS) powder (CAS 1306-23-6) Cadmium (Cd) 1 mg/kg
Cadmium (Cd) 20 mg/kg
Cadmium (Cd) 5 mg/kg

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 methods/information

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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. - 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.

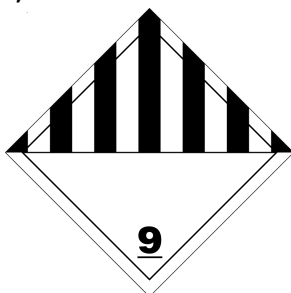
IATA

- 14.1. UN number** UN3077
- 14.2. UN proper shipping name** Environmentally hazardous substance, solid, n.o.s.
- 14.3. Transport hazard class(es)**
 - Class** 9
 - Subsidiary risk** -
- 14.4. Packing group** III
- 14.5. Environmental hazards** No.
- ERG Code** 9L
- 14.6. Special precautions for user** Not available.
- Other information**
 - Passenger and cargo aircraft** Allowed with restrictions.
 - Cargo aircraft only** Allowed with restrictions.

IMDG

- 14.1. UN number** UN3077
- 14.2. UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
- 14.3. Transport hazard class(es)**
 - Class** 9
 - Subsidiary risk** -
- 14.4. Packing group** III
- 14.5. Environmental hazards**
 - Marine pollutant** No.
- EmS** F-A, S-F
- 14.6. Special precautions for user** Not available.

IATA; IMDG



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

Cadmium sulfide (CdS) powder (CAS 1306-23-6)

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

Cadmium sulfide (CdS) powder (CAS 1306-23-6)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Cadmium sulfide (CdS) powder (CAS 1306-23-6)

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

Cadmium sulfide (CdS) powder (CAS 1306-23-6)

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

Cadmium sulfide (CdS) powder (CAS 1306-23-6)

Other EU regulations

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

Cadmium sulfide (CdS) powder (CAS 1306-23-6)

Other regulations

Pregnant women should not work with the product, if there is the least risk of exposure. 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. This product is not in compliance with Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronics equipment (RoHS).

National regulations

Follow national regulation for work with chemical agents. 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.

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

Follow training instructions when handling this material.

Disclaimer

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