CADMIUM OXIDE AR MSDS

CAS-No.: 1306-19-0 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

1.1. Product identifier		
Product form	: Substance	
	:	
CAS-No.	: 1306-19-0	
Product code	: 02425	

1.2.1. Relevant identified uses

Use of the substance/mixture

: Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (inhal.), H330 Category 2 Germ cell mutagenicity, H341 Category 2 Carcinogenicity, Category H350 1A Reproductive toxicity, H361fd Category 2 H372 Specific target organ toxicity - Repeated exposure, Category 1 Hazardous to the aquatic H410 environment — Chronic Hazard, Category 1

Full text of H statements : see section 16

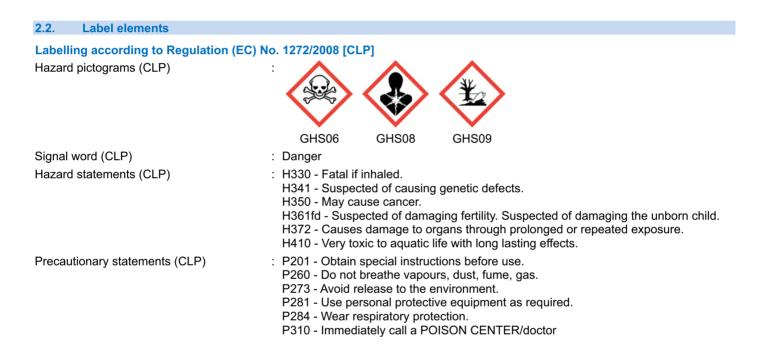
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Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.1; R45 Muta.Cat.3; R68 Repr.Cat.3; R62 Repr.Cat.3; R63 T+; R26 T; R48/23/25 N; R50/53 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available



2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients		
3.1.	Substances	
Name		: CADMIUM OXIDE AR
CAS-N	0.	: 1306-19-0

Full text of R- and H-statements: see section 16

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3.2. Mixtures

Not applicable

SECTION 4: First aid measu	ires
4.1. Description of first	aid measures
First-aid measures after inhal	
First-aid measures after skin	contact : Gently wash with plenty of soap and water.
First-aid measures after eye of	contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
First-aid measures after inges	stion : Rinse mouth. Do not induce vomiting.
4.2. Most important syn	nptoms and effects, both acute and delayed
Symptoms/effects	May damage fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure.
Symptoms/effects after inhala	ation : Fatal if inhaled.
Symptoms/effects after ingest	tion : Harmful if swallowed.
Chronic symptoms	: May cause cancer.
4.3. Indication of any in	nmediate medical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting me	asures
5.1. Extinguishing med	ia
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitable extinguishing med	
0 0	
5.2. Special hazards ari	sing from the substance or mixture
No additional information ava	ilable
5.3. Advice for firefight	ers
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental rele	ase measures
6.1. Personal precautio	ns, protective equipment and emergency procedures
6.1.1. For non-emergency	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency res	•
Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Ventilate area.
6.2. Environmental pred	cautions
Avoid release to the environm	ient.
6.3. Methods and mater	rial for containment and cleaning up
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.
6.4. Reference to other	sections

No additional information available

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SECTION 7: Handling and storage	
7.1. Precautions for safe hand	ling
Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe vapours.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storag	e, including any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/per	rsonal protection
8.1. Control parameters	
No additional information available	

8.2. Exposure controls	
Hand protection : Protective gloves	
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

SECTION 9: Physical and chemical properties

9.1. Information on basic physical ar	nd chemical properties
Physical state	: Solid
Molecular mass	: 128.41 g/mol
Colour	: Dark brown.
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 950 °C
Freezing point	: No data available
Boiling point	: 1559 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available

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Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density Solubility	: 8.15 g/cm³ : Water: Insoluble in water
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous rea	actions
No additional information available	
10.4. Conditions to avoid	
Air contact. Direct sunlight. Moisture.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition	products
No additional information available	
SECTION 11: Toxicological informat	ion
11.1. Information on toxicologica	l effects
Acute toxicity	: Inhalation: Fatal if inhaled.

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: May cause cancer.
Reproductive toxicity	: Suspected of damaging fertility. Suspected of damaging the unborn child.
STOT-single exposure	: Not classified

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STOT-repeated exposure	: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - water	: Very toxic to aquatic life with long lasting effects.	

12.2.	Persistence and degradability	
CADN	/IUM OXIDE AR (1306-19-0)	
Persis	stence and degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5.	Results of PBT and vPvB assessment
CAD	/IUM OXIDE AR (1306-19-0)
This s	substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	

12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
SECTION 14: Transport information	

In accordance with ADR / RID / IMDG / IATA / ADN

14.1.	UN number		
UN-No.	(ADR)	:	2570
UN-No.	(IMDG)	:	2570
UN-No.	(IATA)	:	2570
UN-No.	(ADN)	:	2570
UN-No.	(RID)	:	2570

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14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: CADMIUM COMPOUND
Proper Shipping Name (IMDG)	: CADMIUM COMPOUND
Proper Shipping Name (IATA)	: Cadmium compound
Proper Shipping Name (ADN)	: CADMIUM COMPOUND
Proper Shipping Name (RID)	: CADMIUM COMPOUND
Transport document description (ADR)	: UN 2570 CADMIUM COMPOUND, 6.1, III, (E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 2570 CADMIUM COMPOUND, 6.1, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 2570 Cadmium compound, 6.1, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 2570 CADMIUM COMPOUND, 6.1, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 2570 CADMIUM COMPOUND, 6.1, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 6.1
Danger labels (ADR)	: 6.1
רוערון סוסמאו ואפוו וערון דערו	
	6
Transport hazard class(es) (IMDG)	: 6.1
Danger labels (IMDG)	: 6.1
IATA	
Transport hazard class(es) (IATA)	: 6.1
Hazard labels (IATA)	: 6.1
	$\langle \mathcal{P} \rangle \langle \mathcal{P}_2 \rangle$
	6
ADN	
Transport hazard class(es) (ADN)	: 6.1
Danger labels (ADN)	: 6.1
Daliyel lavels (ADIN)	. U.1
RID	
Transport hazard class(es) (RID)	: 6.1

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Danger labels (RID)

: 6.1



14.4. Packing group	
Packing group (ADR)	: 111
Packing group (IMDG)	: 111
Packing group (IATA)	: 111
Packing group (ADN)	: 111
Packing group (RID)	: 111
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14.5. Environmental hazards

Dangerous for the environment	:	Yes
Marine pollutant	:	Yes
Other information	:	No supplementary information available

14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: T5
Special provisions (ADR)	: 274, 596
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAH, L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Bulk (ADR)	: VC1, VC2, AP7
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S9
Hazard identification number (Kemler No.)	: 60
Orange plates	60 2570
Tunnel restriction code (ADR)	: E
EAC code	: 2X
- Transport by sea	
Special provisions (IMDG)	: 223, 274
Packing instructions (IMDG)	: P002, LP02
IBC packing instructions (IMDG)	: IBC08

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IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
Properties and observations (IMDG)	: Powder or crystals with various colours. May be soluble or insoluble in water. Toxic if swallowed, by skin contact or by dust inhalation.
MFAG-No	: 154
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y645
PCA limited quantity max net quantity (IATA)	: 10kg
PCA packing instructions (IATA)	: 670
PCA max net quantity (IATA)	: 100kg
CAO packing instructions (IATA)	: 677
CAO max net quantity (IATA)	: 200kg
Special provisions (IATA)	: A3, A5
ERG code (IATA)	: 6L
- Inland waterway transport	
Classification code (ADN)	: T5
Special provisions (ADN)	: 274, 596, 802
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: T5
Special provisions (RID)	: 274, 596
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID)	: B3
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T1
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAH, L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Bulk (RID)	: VC1, VC2, AP7
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 60
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions Cadmium oxide is on the REACH Candidate List CADMIUM OXIDE AR is not on the REACH Annex XIV List

15.1.2. National regulations

Germany		
Reference to AwSV	:	Water hazard class (WGK) 3, severe hazard to water (Classification according to AwSV; ID No. 8660)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Netherlands		
SZW-lijst van kankerverwekkende stoffen	:	CADMIUM OXIDE AR is listed
SZW-lijst van mutagene stoffen	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding		The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	The substance is not listed
Denmark		
Recommendations Danish Regulation	:	Young people below the age of 18 years are not allowed to use the product
		Pregnant/breastfeeding women working with the product must not be in direct contact with the product
		The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
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Carc. 1A	Carcinogenicity, Category 1A
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H330	Fatal if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
R26	Very toxic by inhalation
R45	May cause cancer
R48/23/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R62	Possible risk of impaired fertility
R63	Possible risk of harm to the unborn child
R68	Possible risk of irreversible effects
Ν	Dangerous for the environment
Т	Тохіс
T+	Very toxic

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product