

CAS No: 7440-43-9 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1.	Product identifier		
Product form		:	Substance
		:	
EC ind	ex no	:	048-002-00-0
EC no		:	231-152-8
CAS N	0	:	7440-43-9
Produc	ct code	:	02410

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

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

LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com

1.4. Emergency telephone number

Emergency number

: + 91 22 6663 6663 (9:00am - 6:00 pm)

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 1B Reproductive toxicity, H361fd Category 2 Specific target organ H372 toxicity - Repeated exposure, Category 1 Hazardous to the aquatic H410 environment — Chronic Hazard, Category 1

Full text of classification categories and H statements : see section 16

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

Carc.Cat.2; 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

2.2. Label elements	
Labelling according to Regulation (EC)	lo. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS06 GHS08 GHS09
Signal word (CLP)	: Danger
Hazard statements (CLP)	 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
Precautionary statements (CLP)	 P201 - Obtain special instructions before use P260 - Do not breathe vapours, dust, gas, fume P273 - Avoid release to the environment P281 - Use personal protective equipment as required P284 - [In case of inadequate ventilation] wear respiratory protection P310 - Immediately call a POISON CENTER or doctor/physician

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. Substance		
Name	: CADMIUM (METAL) GRANULAR 99.9% AR	
CAS No	: 7440-43-9	
EC no	: 231-152-8	
EC index no	: 048-002-00-0	

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

3.2.	Mixture	
Not app	blicable	
SECTIO	ON 4: First aid measures	
4.1.	Description of first aid measures	
	d measures general	: IF exposed or concerned: Get medical advice/attention.
	d measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	d measures after skin contact	: Gently wash with plenty of soap and water. Get immediate medical advice/attention.
	d measures after eye contact	 Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
First-aid	d measures after ingestion	: Rinse mouth. Do not induce vomiting.
i not ait		. Tanbe modal. Do not modele vonitality.
4.2.	Most important symptoms and e	effects, both acute and delayed
Sympto	ms/injuries	: Suspected of causing genetic defects. May cause cancer. Suspected of damaging fertility. May cause damage to organs. Causes damage to organs through prolonged or repeated exposure.
4.3.	Indication of any immediate med	lical attention and special treatment needed
No add	itional information available	
SECTIO	ON 5: Firefighting measures	
UEU IR	Sit of Finelighting modearee	
5.1.	Extinguishing media	
Suitable	e extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuita	ble extinguishing media	: Do not use a heavy water stream.
5.0	Creation homenda aniainar fram tha	
5.2.	Special hazards arising from the itional information available	Substance or mixture
NO add		
5.3.	Advice for firefighters	
Protecti	ion during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTIO	ON 6: Accidental release measure	S
6.1.	Porsonal procautions protective	e equipment and emergency procedures
		e equipment and emergency procedures
6.1.1.	For non-emergency personnel	
Emerge	ency procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
Protecti	ive equipment	: Equip cleanup crew with proper protection.
Emerge	ency procedures	: Ventilate area.
6.2.	Environmental precautions	
Avoid re	elease to the environment.	
6.3.	Methods and material for contain	nment and cleaning up
Method	s for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as

6.4. Reference to other sections

No additional information available

possible. On land, sweep or shovel into suitable containers.

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SECTION 7: Handling and storage		
7.1. Precautions for safe handlin	ng	
Precautions for safe handling	: Obtain special instructions before use. Use personal protective equipment as required. 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 storage	, 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/personal protection		
8.1. Control parameters		
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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 a	nd chemical properties
Physical state	: Solid
Colour	: Silver gray granules.
Odour	: odourless.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 320.9 °C
Freezing point	: No data available
Boiling point	: 765 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Boiling point Flash point Auto-ignition temperature Decomposition temperature	 765 °C No data available No data available 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		8.64 g/cm³ Water: Insoluble
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 reactions No additional information available 10.4. **Conditions to avoid** Direct sunlight. Air contact. Moisture. Incompatible materials 10.5. No additional information available Hazardous decomposition products 10.6. No additional information available

SECTION 11: Toxicological information 11.1. Information on toxicological 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.

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Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (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. Persis	2.2. Persistence and degradability			
CADMIUM (METAL) GRANULAR 99.9% AR (7440-43-9)				
Persistence 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	CADMIUM (METAL) GRANULAR 99.9% AR (7440-43-9)			
This s	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII			
This s	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	

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
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, I, (C/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 2570 CADMIUM COMPOUND, 6.1, I, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 2570 CADMIUM COMPOUND, 6.1, I, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 2570 CADMIUM COMPOUND, 6.1, I, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 2570 CADMIUM COMPOUND, 6.1, I, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
Transport hazard class(es) (ADR)	: 6.1
Danger labels (ADR)	: 6.1
IMDG	
Transport hazard class(es) (IMDG)	: 6.1
Danger labels (IMDG)	: 6.1
ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 6.1
Hazard labels (IATA)	: 6.1
ADN	
Transport hazard class(es) (ADN)	: 6.1
Danger labels (ADN)	: 6.1
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Transport hazard class(es) (RID)	: 6.1
Danger labels (RID)	: 6.1
14.4. Packing group	
Packing group (ADR)	:1
Packing group (IMDG)	:1
Packing group (IATA)	: 1
Packing group (ADN)	:1
Packing group (RID)	:1
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 provision (ADR)	: 274, 596
Limited quantities (ADR)	: 0
Excepted quantities (ADR)	: E5
Packing instructions (ADR)	: P002, IBC07
Mixed packing provisions (ADR)	: MP18
Portable tank and bulk container instructions (ADR)	: T6
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: S10AH, L10CH
Tank special provisions (ADR)	: TU14, TU15, TE19, TE21
Vehicle for tank carriage	: AT
Transport category (ADR)	: 1
Special provisions for carriage - Packages (ADR)	: V10
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV1, CV13, CV28
Special provisions for carriage - Operation (ADR)	: S9, S14
Hazard identification number (Kemler No.)	: 66
Orange plates	66 2570
	2570
Tunnel restriction code (ADR)	: C/E
EAC code	: 2X
- Transport by sea	
Special provision (IMDG)	: 274
Limited quantities (IMDG)	: 0
Excepted quantities (IMDG)	: E5

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Packing instructions (IMDG)	:	P002
IBC packing instructions (IMDG)	:	IBC07
IBC special provisions (IMDG)	:	B1
Tank instructions (IMDG)	:	Т6
Tank special provisions (IMDG)	:	TP33
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-A
Stowage category (IMDG)	:	A
MFAG-No	:	154
- Air transport		
PCA Excepted quantities (IATA)	:	E5
PCA Limited quantities (IATA)	:	Forbidden
PCA limited quantity max net quantity (IATA)	:	Forbidden
PCA packing instructions (IATA)	:	666
PCA max net quantity (IATA)	:	5kg
CAO packing instructions (IATA)	:	673
CAO max net quantity (IATA)	:	50kg
Special provision (IATA)	:	A3, A5
ERG code (IATA)	:	6L
Inland waterway transport		
Classification code (ADN)	:	Т5
Special provisions (ADN)	:	274, 596, 802
_imited quantities (ADN)	:	0
Excepted quantities (ADN)	:	E5
Equipment required (ADN)	:	PP, EP
Number of blue cones/lights (ADN)	:	2
- Rail transport		
Classification code (RID)	:	Т5
Special provision (RID)	:	274, 596
_imited quantities (RID)	:	0
Excepted quantities (RID)	:	E5
Packing instructions (RID)	:	P002, IBC07
Mixed packing provisions (RID)	:	MP18
Portable tank and bulk container instructions (RID)	:	Т6
Portable tank and bulk container special provisions (RID)	:	ТР33
Tank codes for RID tanks (RID)	:	S10AH, L10CH
Special provisions for RID tanks (RID)		TU14, TU15, TU38, TE21, TE22
Transport category (RID)		1
Special provisions for carriage – Packages RID)	-	
Special provisions for carriage – Loading and unloading (RID)	:	CW13, CW28, CW31
Hazard identification number (RID)	:	66

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 is on the REACH Candidate List CADMIUM (METAL) GRANULAR 99.9% AR is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference	:	Water hazard class (WGK) 3, strongly hazardous to water (KBwS-Beschluss; WGK No 8659)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	:	Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
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

15.2.	Chemical safety assessment
No add	itional information available

SECTION 16: Other information

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

Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Carc. 1B	Carcinogenicity, Category 1B
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

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410 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		
N	Dangerous for the environment		
Т	Toxic		
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