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MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: CADMIUM OXIDE

CAS Number: 1306-19-0

1. IDENTIFICATION:		
Product Code	:	93540
Company Name	:	ADVENT CHEMBIO PRIVATE LIMITED
Address	:	W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, NAVI MUMBAI - 400 701.
E-mail	:	sales@adventchembio.com
WEBSITE	:	www.adventchembio.com
Company Phone Number	:	022-27690837

2. HAZARDS IDENTIFICATION:

Hazard classification	
Health hazards	
Acute toxicity, Inhalation	: Category 2
Germ cell mutagenicity	: Category 2
Carcinogenicity	: Category 1B
Reproductive toxicity	: Category 2
Specific target organ toxicity - repeated exposure	: Category 1
Short-term (acute) aquatic hazard	: Category 1
Long-term (chronic) aquatic hazard	: Category 1
Labels elements	:
Hazard symbol	
Signal word	: Danger
Hazard statement	 Fatal if inhaled Suspected of causing genetic defects. May cause cancer. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.
Precautionary statement	
Prevention	: Obtain special instructions before use. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood.



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		Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
		Keep container tightly closed. Ground/ bond container and receiving equipment.
		Use explosion-proof electrical/ventilating/lighting/equipment.
		Use only non-sparking tools. Take precautionary measures against static discharge.
Response	:	IF ON SKIN (or hair): Rinse skin with water/ shower.
		IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing.
		IF INHALED: Remove person to fresh air and keep comfortable for breathing.
		IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Storage	:	Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Disposal		Dispose of contents/container to an appropriate treatment and disposal facility in
Disposal	·	accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/ INFORMATION ON INGRADIENTS:				
Ingredient	Hazardous			
Cadmium Oxide	1306-19-0	NLT 99.0%	Yes	

4. FIRST AID MEASURES:

General information	: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
Ingestion	 Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Move to fresh air. Call a physician or poison control center immediately. If breathing stops,
Inhalation	: provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.
Skin contact	Flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Eye contact	Flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Most important symptoms/effects, acute and delayed	: The most important known symptoms and effects are described in the labelling.
Indication of immediate medical attention and special treatment needed	: No data available.



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5. FIRE FIGHTING MEASUR	ES:
General information	:
Suitable (and unsuitable) ext	inguishing media
Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: For this substance/mixture no limitations of extinguishing agents are given.
Specific hazards arising from the chemical	: Cadmium/cadmium oxides Not combustible. Ambient fire may liberate hazardous vapors.
Special protective equipmen	t and precautions for firefighters
Special firefighting procedures	Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.
Special protective equipment for fire-fighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
6. ACCIDENTAL RELEASE M	EASURES:
Personal precautions, protective equipment and emergency procedures Methods and material for containment and cleaning	 ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk.
up	: Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
Notification Procedures	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
Environmental precautions	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. HANDLING AND STORAG	GE:
Precautions for safe handling	Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin,

thoroughly after handling.

and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands



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Storage class	Storage class (TRGS 510): (materials.	.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic hazardous				
8. EXPOSURE CONTROLS PERSONAL PROTECTION:						
Control parameters						
Appropriate engineering controls	: No data available					
Individual protection meas	sures, such as personal protective	equipment				
General information	rates should be matched t : ventilation, or other engin	(typically 10 air changes per hour) should be used. Ventilation o conditions. If applicable, use process enclosures, local exhaust eering controls to maintain airborne levels below recommended ash and safety shower must be available in the immediate work rentilation equipment.				
Eye/face protection Hand protection	• • • • • •	rotection tested and approved under appropriate government IS) or EN 166(EU). Safety glasses.				
Other	: Wear suitable protective c	othing.				
Respiratory protection	Respirator with organic va	•				
Hygiene measures	. material and before eatin	sonal hygiene measures, such as washing after handling the g, drinking, and/or smoking. Routinely wash work clothing and move contaminants. Provide eyewash station and safety shower. in, and clothing.				

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	:	Dark brown crystal/ powder.
Odor	:	Odorless
Solubility	:	Slightly soluble in water.
Formula	:	CdO
Molecular Weight	:	128.41 g/mol
Density	:	8.15 g/cm3 at 25°C
рН	:	No data available
% Volatiles by volume @ 21C (70F)	:	No data available
Boiling Point	:	No data available
Melting Point	:	870 - 950°C
Flash Point	:	No data available



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Vapor Density (Air=1)	:	No data available
Vapor Pressure (mm Hg)	:	No data available
Evaporation Rate (BuAc=1)	:	No data available
10. STABILITY AND REACTIV	ITY:	
Reactivity	:	No data available
Chemical stability	:	Material is stable under ambient conditions
Possibility of hazardous reactions	:	Violent reactions possible with: Light metals Risk of explosion with: Aluminum, perchlorates, hydrogen sulphide, hydrogen peroxide, Salts of hydrazine, magnesium, with Heat.
Conditions to avoid	:	No data available
Incompatible materials	:	No data available
Hazardous decomposition products	:	In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:

Information on toxicological effects

Acute toxicity (list all possibl	e rc	outes of exposure)
Oral Product	:	No data available.
Dermal Product	:	No data available.
Inhalation Product	:	LC 50 (Rat): 0.056 mg/kg.
Repeated dose toxicity Product	:	No data available.
Skin corrosion/irritation Product	:	No data available.
Serious eye damage/eye irritation Product	:	No data available.
Respiratory or skin sensitization Product	:	No data available.
Carcinogenicity Product	:	Carcinogen Possible human carcinogen
Germ cell mutagenicity		
In vitro Product	:	In vitro tests showed mutagenic effects
Reproductive toxicity Product	:	Suspected human reproductive toxicant
Specific target organ toxicity - single exposure Product	:	No data available.



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Specific target organ toxicity - repeated exposure Product	:	No data available.
Aspiration hazard Product	:	No data available.
Other effects	:	None known.
Additional Information	:	Kidney injury may occur., Damage to the lungs
12. ECOLOGICAL INFORMAT	ION	:
Ecotoxicity Acute hazards to the aquatic	env	vironment
Toxicity to daphnia and other aquatic invertebrates	:	Static test LC50 - Daphnia magna (Water flea) – 0.75 mg/l - 48 h
Toxicity to algae	:	Static test EC50 - Pseudokirchneriella subcapitata (algae) - 0,018 mg/l - 72 h
Toxicity to bacteria	:	Respiration inhibition NOEC - Sludge Treatment - 0,353 mg/l - 3 h
Chronic hazards to the aquat	ic e	nvironment
Fish Product	:	No data available.
Aquatic invertebrates Product	:	No data available.
Toxicity to Aquatic Plants Product:	:	No data available.
Persistence and degradability	y	
Biodegradation Product	:	No data available.
BOD/COD ratio Product	:	No data available.
Bioaccumulative potential		
Bioconcentration factor (BCF) Product Partition coefficient n-	:	No data available on bioaccumulation.
octanol / water (log Kow) Product	:	No data available.
Mobility in soil	:	No data available.
Other adverse effects	:	No data available.
13. DISPOSAL CONSIDERATIO	ON:	
Disposal instructions	:	Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.
Contaminated packaging	:	Since emptied containers retain product residue, follow label warnings even after container is emptied.



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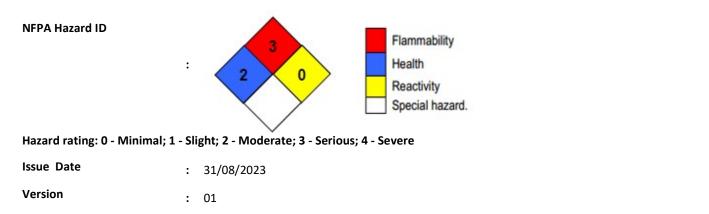
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	UN No.	UN proper shipping	Hazard	Packaging	Marine
		name	Class(es)	group	Pollutant
ADR/RID	UN 2570	Cadmium Oxide	6.1	I	No
MDG	UN 2570	Cadmium Oxide	6.1	I	No
ΑΤΑ	UN 2570	Cadmium Oxide	6.1	I	No

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

16. OTHER INFORMATION:



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