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**Material Safety Data Sheet**

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<b>Product Name</b>	<b>Cadmium carbonate</b>
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**Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF  
THE COMPANY/UNDERTAKING**

**1.1. Product identification:**

**Product Description:** Cadmium carbonate

**Synonyms:** Cadmium monocarbonate.; Carbonic acid, cadmium salt

**CAS-No:** 513-78-0

**EC-No.:** 208-168-9

**Molecular Formula:** Cd CO<sub>3</sub>

**REACH Registration No:** A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

**Recommended Use:** Laboratory chemicals, Manufacture of substances

**1.3. Details of the supplier of the safety data sheet:**

- **Company** **Finar Limited**  
184-186/P, Chacharwadi Vasna,  
Sarkhej-Bavla Highway,  
Ta.: Sanand, Dist.: Ahmedabad,  
Email: [info@finarchemicals.com](mailto:info@finarchemicals.com)  
Web: [www.finarchemicals.com](http://www.finarchemicals.com)
- **E-Mail Address** [safety@finarchemicals.com](mailto:safety@finarchemicals.com); [info@finarchemicals.com](mailto:info@finarchemicals.com)

**1.4. Emergency Telephone Number:**

- For Emergency contact on: +91 - 2717 - 616 717

**Material Safety Data Sheet**

<b>Product Name</b>	<b>Cadmium carbonate</b>
---------------------	--------------------------

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1. Classification of the substance or mixture:**

**Classification according to Regulation (EC) No 1272/2008**

- Acute toxicity, Oral (Category 4), H302
- Acute toxicity, Inhalation (Category 2), H330
- Acute toxicity, Dermal (Category 4), H312
- Germ cell mutagenicity (Category 2), H341
- Carcinogenicity (Category 1B), H350
- Reproductive toxicity (Category 2), H361
- Specific target organ toxicity - repeated exposure (Category 1), H372
- Short-term (acute) aquatic hazard (Category 1), H400
- Long-term (chronic) aquatic hazard (Category 1), H410

**2.2. Label Elements:**

**Labeling according to Regulation (EC) No 1272/2008**

**Pictogram**



Signal word	Danger
Hazard statement(s)	
H302 + H312	Harmful if swallowed or in contact with skin.
H330	Fatal if inhaled.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
<b>Precautionary statement(s)</b>	
P201	Obtain special instructions before use.

**Material Safety Data Sheet**

<b>Product Name</b>	<b>Cadmium carbonate</b>
---------------------	--------------------------

- P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing.
- P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel Unwell. Rinse mouth.
- P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ Doctor if you feel unwell.
- P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable For breathing. Immediately call a POISON CENTER/ doctor.

Supplemental Hazard None  
Statements

Restricted to professional users.

**2.3. Other Hazards:**

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.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances:** Cadmium carbonate

**3.2. Mixtures:**

Component	CAS-No	EC-No.	Weight %
Cadmium carbonate	513-78-0	208-168-9	>95

**SECTION 4: FIRST AID MEASURES**

**4.1. Description of first aid measures:**

- **General advice**

Consult a physician. Show this material safety data sheet to the doctor in attendance.

- **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Material Safety Data Sheet**

<b>Product Name</b>	<b>Cadmium carbonate</b>
---------------------	--------------------------

- **If Contact with skin**  
Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.
- **In case of eye contact**  
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- **If swallowed**  
Clean mouth with water and Do NOT induce vomiting; Never give anything by mouth to an unconscious person, call a physician.

**4.2. Most important symptoms and effects, both acute and delayed:**  
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3. Indication of any immediate medical attention and special treatment needed:**  
**Notes to Physician** Treat symptomatically.

**SECTION 5: FIREFIGHTING MEASURES**

- 5.1. Extinguishing media:**  
**Suitable Extinguishing Media-** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
- 5.2. Special hazards arising from the substance or mixture:**  
Do not allow run-off from firefighting to enter drains or water courses.
- 5.3. Advice for firefighters:**  
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.
- 5.4 Further Information:**  
No data available

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Material Safety Data Sheet**

<b>Product Name</b>	<b>Cadmium carbonate</b>
---------------------	--------------------------

**6.1. Personal precautions, protective equipment and emergency procedures:**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas.  
 Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.  
 For personal protection see section 8.

**6.2. Environmental precautions:**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**6.3. Methods and material for containment and cleaning up:**

Pick up and arrange disposal without creating dust. Sweep up and shovel.  
 Keep in suitable, closed containers for disposal.

**6.4. Reference to other sections:**

Refer to protective measures listed in Sections 8 and 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling:**

Do not get in eyes, on skin, or on clothing. Wear personal protective equipment/face protection.  
 Avoid dust formation. Use only under a chemical fume hood. Do not breathe (dust, vapor, mist, gas). Do not ingest. If swallowed, then seek immediate medical assistance.

**Hygiene measures**

Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product.  
 For precautions see section 2.2.

**7.2. Conditions for safe storage, including any incompatibilities:**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

**7.3. Specific end use(s):**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters:**

**Material Safety Data Sheet**

<b>Product Name</b>	<b>Cadmium carbonate</b>
---------------------	--------------------------

Ingredients with workplace control parameters

**8.2. Exposure Controls:**

**Appropriate Engineering Controls:**

Ensure adequate ventilation, especially in confined areas.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source .

**Personal Protective Equipment:**

- **Eye & Face Protection-**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

- **Hand Protection -**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique Full contact-

Material:	Nitrile rubber
Minimum layer thickness:	0,11 mm
Break through time:	480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact-

Material:	Nitrile rubber
Minimum layer thickness:	0,11 mm
Break through time:	480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

- **Other Protective equipment-**

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

- **Respiratory Protection-**

Where risk assessment shows air-purifying respirators are appropriate use a full face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls.

If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as

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**Material Safety Data Sheet**

---

<b>Product Name</b>	<b>Cadmium carbonate</b>
---------------------	--------------------------

NIOSH (US) or CEN (EU).

**Environmental Exposure Controls-**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties:**

- **Appearance:** White
- **Physical State:** Solid
- **Odor:** Odorless
- **Odor Threshold:** No data available
- **pH:** No data available
- **Melting Point:** 343°C - 412 °C
- **Critical Temperature:** No data available
- **Vapor Pressure:** No data available
- **Vapor Density:** Not applicable
- **Specific Gravity:** No data available
- **Auto-Ignition Temperature:** No data available
- **Decomposition Temperature:** No data available
- **Volatility:** No data available
- **Bulk Density:** No data available
- **Dissociation constant:** No data available
- **Viscosity, dynamic:** No data available
- **Viscosity, Kinematic:** No data available
- **Water/Oil Dist. Co eff.:** No data available
- **Partition Co-efficient: n-octanol/Water:** No data available
- **Ionicity (in Water):** No data available
- **Lower Explosion Limit:** No data available
- **Upper Explosion Limit:** No data available
- **Boiling Point/Range:** No data available

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**Material Safety Data Sheet**

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<b>Product Name</b>	<b>Cadmium carbonate</b>
---------------------	--------------------------

- **Flash Point:** Not applicable
- **Water Solubility:** No data available

**9.2. Other information:**

- **Molecular Formula:** Cd CO<sub>3</sub>
- **Molecular Weight:** 172.41 g/mol

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity: -**

None known, based on information available.

**10.2. Chemical stability:**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions:**

Hazardous Polymerization      No information available.

Hazardous Reactions              None under normal processing.

**10.4. Conditions to avoid:**

Incompatible products. Excess heat.

**10.5. Incompatible materials:**

Strong oxidizing agents.

**10.6. Hazardous decomposition products:**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects:****Acute toxicity**

LD50 Oral - Rat - 438 mg/kg

Remarks: (RTECS)

LC50 Inhalation - Rat - male and female - 4 h - 0,06 mg/l

Inhalation: absorption

Acute toxicity estimates Dermal - 1.100,1 mg/kg

(Expert judgment)

**Skin irritation**

No data available



**Material Safety Data Sheet**

<b>Product Name</b>	<b>Cadmium carbonate</b>
---------------------	--------------------------

**Eye irritation**

No data available

**Sensitisation**

No data available

**Germ cell mutagenicity**

May cause genetic defects.

**Carcinogenicity**

Category 1B

**Reproductive toxicity**

Suspected human reproductive toxicant

**Teratogenicity**

No data available

**Specific target organ toxicity - single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

Causes damage to organs through prolonged or repeated exposure. - Lungs, Kidney, Bone

**Aspiration hazard**

Not applicable - Solid

**11.2 Further Information:**

Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been Thoroughly investigated.

The following applies to cadmium compounds in general: mucosal irritations, coughing, and dyspnoea. After inhalation. Inhalation may lead to the formation of oedemas in the respiratory tract. Toxic effect on Gastrointestinal tract. Long-term exposure to the chemical results in toxic effect on kidneys, lungs, bones.

Further data:

Handle in accordance with good industrial hygiene and safety practice.

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**Material Safety Data Sheet**

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<b>Product Name</b>	<b>Cadmium carbonate</b>
---------------------	--------------------------

**SECTION 12: ECOLOGICAL INFORMATION****12.1. Toxicity:****Toxicity to fish**

No data available

**Toxicity to daphnia and other aquatic invertebrates**

No data available

**Toxicity to algae**

static test EbC50 - Pseudokirchneriella subcapitata (green algae) -0,023 mg/l - 72 h  
(OECD Test Guideline 201)

**12.2 Persistence and degradability:**

The methods for determining the biological degradability are not applicable to inorganic substances.

**12.3 Bioaccumulate potential:**

No data available

**12.4 Mobility in soil:**

No data available

**12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bio accumulative and Toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

**12.6 Other adverse effects:**

Very toxic to aquatic life with long lasting effects

**SECTION 13: Disposal considerations****13.1 Waste treatment methods:****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Contaminated packaging**

Dispose of as unused product.

## Material Safety Data Sheet

<b>Product Name</b>	Cadmium carbonate
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### SECTION 14: Transport information

	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
<b>14.1 UN number</b>	UN2570	UN2570	UN2570
<b>14.2 Proper shipping name</b>	CADMIUM COMPOUND (Cadmium carbonate)	Cadmium Compound (Cadmium carbonate)	CADMIUM COMPOUND (Cadmium carbonate)
<b>14.3 Class</b>	6.1	6.1	6.1
<b>14.4 Packing group</b>	II	II	II
<b>14.5 Environmentally hazardous</b>	YES	NO	YES
<b>14.6 Special precautions for user</b>	---		
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not Relevant		

### SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No.1907/2006.

**Authorizations and/or restrictions on use**

**National legislation**

Seveso III: Directive 2012/18/EU of the : ACUTE TOXIC

European Parliament and of the Council on the

control of major-accident hazards involving

dangerous substances

: ENVIRONMENTAL HAZARDS

**15.2 Chemical safety assessment:**

No data available.

### SECTION 16: Other information

**Full text of H-Statements referred to under sections 2 and 3.**

H302 Harmful if swallowed.

**Material Safety Data Sheet**

<b>Product Name</b>	<b>Cadmium carbonate</b>
---------------------	--------------------------

- H302 + H312 Harmful if swallowed or in contact with skin.
- H312 Harmful in contact with skin.
- H330 Fatal if inhaled.
- H340 May cause genetic defects.
- H341 Suspected of causing genetic defects
- H350 May cause cancer.
- H361 Suspected of damaging fertility or the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

**Training advice**

Provide adequate information, instruction and training for operators.

**References:** Not available

**Created:** 14/06/2021

**Disclaimer:**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Finar Limited be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Finar Limited has been advised of the possibility of such damages.