

## SAFETY DATA SHEET

Creation Date 24-Nov-2010

Revision Date 24-Dec-2021

Revision Number 5

## 1. Identification

#### **Product Name**

### Cadmium carbonate

Cat No. :	AC212320000; AC212320010; AC212320050; AC212322500		
CAS No Synonyms	513-78-0 Cadmium monocarbonate.; Carbonic acid, cadmium salt		

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

#### Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

**Emergency Telephone Number** 

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US:**001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No.**US:**001-800-424-9300 / **Europe:**001-703-527-3887

## 2. Hazard(s) identification

#### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Acute dermal toxicity Acute Inhalation Toxicity - Dusts and Mists Germ Cell Mutagenicity Carcinogenicity Reproductive Toxicity Specific target organ toxicity - (repeated exposure) Target Organs - Kidney, Blood.

Category 4 Category 4 Category 2 Category 1B Category 1A Category 2 Category 1

#### Label Elements

Signal Word Danger

#### **Hazard Statements**

Fatal if inhaled May cause genetic defects May cause cancer Suspected of damaging fertility or the unborn child Causes damage to organs through prolonged or repeated exposure Harmful if swallowed or in contact with skin



#### Precautionary Statements Prevention

Prevention Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear respiratory protection

### Response

IF exposed or concerned: Get medical attention/advice

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a POISON CENTER or doctor/physician

#### Skin

IF ON SKIN: Wash with plenty of soap and water

Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

## Storage

Store locked up

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

#### Disposal

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

Very toxic to aquatic life with long lasting effects

WARNING. Cancer - https://www.p65warnings.ca.gov/.

## 3. Composition/Information on Ingredients

Component	CAS No	Weight %	
Cadmium carbonate	513-78-0	>95	

## 4. First-aid measures

**General Advice** 

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

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.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.		
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.		
Ingestion	Do NOT induce vomiting. Call a physician or poison control center immediately.		
Most important symptoms and effects	No information available.		
Notes to Physician	Treat symptomatically		

## 5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

#### Specific Hazards Arising from the Chemical

Do not allow run-off from fire-fighting to enter drains or water courses.

#### Hazardous Combustion Products

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

#### Protective Equipment and Precautions 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.

<u>NFPA</u> Health 4	Flammability 0	Instability 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions			ipment as required. Avoid dust k. Evacuate personnel to safe
Environmental Precautions	contaminate ground water	ater or sanitary sewer system. system. Prevent product from cant spillages cannot be contai	entering drains. Local authorities

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

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.

#### Storage.

Keep container tightly closed in a dry and well-ventilated place. Incompatible Materials. Strong oxidizing agents.

### 8. Exposure controls / personal protection

#### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL (TWA)
Cadmium carbonate	TWA: 0.01 mg/m <sup>3</sup>		IDLH: 9 mg/m <sup>3</sup>	TWA: 0.002 mg/m <sup>3</sup>
	TWA: 0.002 mg/m <sup>3</sup>			

<u>Legend</u>

ACGIH - American Conference of Governmental Industrial Hygienists NIOSH IDLH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures	Ensure adequate ventilation, especially in confined areas.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties			
Physical State	Solid		
Appearance	White		
Odor	Odorless		
Odor Threshold	No information available		
pH	No information available		
Melting Point/Range	343 - 412 °C / 649.4 - 773.6 °F		
Boiling Point/Range	No information available		
Flash Point	No information available		
Evaporation Rate	Not applicable		
Flammability (solid,gas)	No information available		
Flammability or explosive limits			
Upper	No data available		
Lower	No data available		
Vapor Pressure	No information available		
Vapor Density	Not applicable		
Specific Gravity	No information available		
Solubility	Insoluble in water		
Partition coefficient; n-octanol/water	No data available		
Autoignition Temperature	No information available		
Decomposition Temperature	No information available		
Viscosity	Not applicable		
Molecular Formula	C Cd O3		

**Reactive Hazard** 

## Molecular Weight

# 10. Stability and reactivity None known, based on information available

172.41

StabilityNo information available.Conditions to AvoidIncompatible products. Excess heat.Incompatible MaterialsStrong oxidizing agentsHazardous Decomposition ProductsCarbon monoxide (CO), Carbon dioxide (CO2)Hazardous PolymerizationNo information available.

Hazardous Reactions None under normal processing.

11. Toxicological information

Acute Toxicity

### Product Information

Componen	t I	LD50 Oral		LD50 Dermal	LC50	Inhalation
Cadmium carbonate		438 mg/kg (Rat)		Not listed		ot listed
Foxicologically Syn Products	ergistic	No information ava			<b>I</b>	
Delayed and Immed	late effects	as well as chronic effe	cts from short a	and long-term exp	osure	
rritation		No information ava	ailable			
Sensitization		No information ava	ailable			
Carcinogenicity		The table below in	dicates whether	each agency has lis	sted any ingredient	as a carcinoger
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Cadmium carbonate	513-78-0	) Group 1	Known	A2	X Research on Cancer)	Not listed
ACGIH: (American Hygienists) Mutagenic Effects	n Conference	of Governmental Industri Possible risk of irre	Reasonal Carcinogo ial A1 - Knov A2 - Susp A3 - Anim ACGIH: (	en wn Human Carcinoger bected Human Carcino nal Carcinogen		
Reproductive Effect	S	Possible risk of im	paired fertility. Po	ossible risk of harm	to the unborn child.	
Developmental Effects		No information ava	No information available.			
Teratogenicity		No information ava	No information available.			
STOT - single expos	sure	None known	None known Kidney Blood			
STOT - repeated exp						

Symptoms / effects,both acute and delayed	No information available		
Endocrine Disruptor Information	No information available		
Other Adverse Effects	The toxicological properties have not been fully investigated.		
	12. Ecological information		
Ecotoxicity Very toxic to aquatic organisms, may or substances which are hazardous for th	cause long-term adverse effects in the aquatic environment. The product contains following ie environment.		
Persistence and Degradability	Insoluble in water		
<b>Bioaccumulation/ Accumulation</b>	No information available.		
Mobility	Is not likely mobile in the environment due its low water solubility.		
	13. Disposal considerations		
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.		
	14. Transport information		
DOT			
UN-No	UN2570		
Proper Shipping Name	Cadmium compounds		
Technical Name	Cadmium carbonate		
Hazard Class	6.1		
Packing Group	II		
<u>TDG</u>			
UN-No Proper Shipping Name	UN2570		
Proper Shipping Name			
Hazard Class	CADMIUM COMPOUND		
Hazard Class Packing Group	6.1		
Packing Group			
	6.1		
Packing Group <u>IATA</u> UN-No	6.1 II		
Packing Group IATA	6.1 II UN2570		
Packing Group <u>IATA</u> UN-No Proper Shipping Name	6.1 II UN2570 CADMIUM COMPOUND		
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## United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Cadmium carbonate	513-78-0	Х	ACTIVE	-

Legend: TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed

'-' - Not Listed

#### TSCA 12(b) - Notices of Export Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Cadmium carbonate	513-78-0	Х	-	208-168-9	Х	Х	Х	Х	Х	KE-04400

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

#### **SARA 313**

Component	CAS No	Weight %	SARA 313 - Threshold Values %
Cadmium carbonate	513-78-0	>95	0.1

SARA 311/312 Hazard Categories See section 2 for more information

#### **CWA (Clean Water Act)**

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Cadmium carbonate	-	-	Х	-

#### **Clean Air Act**

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Cadmium carbonate	Х		-

**OSHA** - Occupational Safety and Not applicable Health Administration

	Component	Specifically Regulated Chemicals	Highly Hazardous Chemicals
	Cadmium carbonate	5 μg/m³ TWA	-
		2.5 µg/m <sup>3</sup> Action Level	
CERCLA	Not applic	cable	

Not applicable

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals.

Component	CAS No	California Prop. 65	Prop 65 NSRL	Category
Cadmium carbonate	513-78-0	Carcinogen	-	Carcinogen
U.S. State Right-to-Know	1			•

## Regulations

regulations	

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Cadmium carbonate	-	Х	Х	Х	Х

#### **U.S. Department of Transportation**

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

## **U.S. Department of Homeland**

This product does not contain any DHS chemicals.

#### Security

#### Other International Regulations

#### Mexico - Grade

No information available

#### Authorisation/Restrictions according to EU REACH

Component	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Cadmium carbonate	-	Use restricted. See item 72. (see link for restriction details) Use restricted. See item 28. (see link for restriction details) Use restricted. See item 29. (see link for restriction details) Use restricted. See item 75. (see link for restriction details) Use restricted. See item 23. (see link for restriction details)	SVHC Candidate list - 208-168-9 - Carcinogenic, Article 57a;Mutagenic, Article 57b;Specific target organ toxicity after repeated exposure, Article 57(f) - human health

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g. use in scientific research and development which includes routine analytics or use as intermediate.

https://echa.europa.eu/authorisation-list

https://echa.europa.eu/substances-restricted-under-reach

https://echa.europa.eu/candidate-list-table

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Cadmium carbonate	513-78-0	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Cadmium carbonate	513-78-0	Not applicable	Not applicable	Not applicable	Annex I - Y26

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	24-Nov-2010 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of SDS**