

# SAFETY DATA SHEET

Creation Date 31-Jul-2014

Revision Date 10-Sep-2019

**Revision Number** 8

1. Identification

## Product Name

## AC192040000; AC192040025; AC192040050; AC192040250; AC192041000; AC192045000

CAS-No Synonyms

Cat No. :

o534-17-8ymsCarbonic acid, dicesium salt; Dicesium carbonate.

**Cesium carbonate** 

Recommended UseLaboratory chemicals.Uses advised againstFood, drug, pesticide or biocidal product use.Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific 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)

Serious Eye Damage/Eye Irritation Reproductive Toxicity Specific target organ toxicity - (repeated exposure) Target Organs - Kidney, Adrenal gland, Adrenal cortex.

Category 1 Category 2 Category 2

#### Label Elements

Signal Word Danger

Hazard Statements Causes serious eye damage Suspected of damaging fertility May cause damage to organs through prolonged or repeated exposure



#### Precautionary Statements Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Do not breathe dust/fume/gas/mist/vapors/spray **Response** IF exposed or concerned: Get medical attention/advice **Eyes** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician **Storage** Store locked up **Disposal** Dispose of contents/container to an approved waste disposal plant **Hazards not otherwise classified (HNOC)** 

None identified

## 3. Composition/Information on Ingredients

Component		CAS-No	Weight %			
Cesium carbonate		534-17-8	>95			
	4.	First-aid measures				
General Advice	If symptoms persist, call a physician.					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.					
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.					
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.					
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.					
Most important symptoms and effects	Causes severe eye damage.					
Notes to Physician	Treat symptomatically					
	5. Fir	re-fighting measures				

Suitable Extinguishing Media

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	Not applicable
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No information available

#### **Specific Hazards Arising from the Chemical**

Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

#### **Hazardous Combustion Products**

Thermal decomposition can lead to release of irritating gases and vapors. Carbon oxides.

#### 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.

NFPA Health 3	<b>Flammability</b> 0	Instability 1	Physical hazards N/A						
	6. Accidental rel	ease measures							
Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.								
Environmental Precautions	Should not be released into	Should not be released into the environment.							
Methods for Containment and Clea Up	n Sweep up and shovel into s containers for disposal.	suitable containers for disposal	. Keep in suitable, closed						
	7. Handling a								
Handling			ire adequate ventilation. Avoid in eyes, on skin, or on clothing.						
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store under an inert atmosphere.								
8. E	xposure controls	personal protection	on						
Exposure Guidelines		ain any hazardous materials wi ion specific regulatory bodies.	th occupational exposure						
Engineering Measures	Ensure adequate ventilation and safety showers are closed	Ensure that eyewash stations							
Personal Protective Equipment									
Eye/face Protection	Tight sealing safety goggle	s. Face protection shield.							
Skin and body protection	Wear appropriate protective	e gloves and clothing to preven	t skin exposure.						
Respiratory Protection	Follow the OSHA respirator	r regulations found in 29 CFR 1	910.134 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 Powder
Appearance	White Colorless
Odor	Odorless
Odor Threshold	No information available
рН	10-12 50 g/l 20°C
Melting Point/Range	> 400 °C / > 752 °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	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	610 °C
Viscosity	Not applicable
Molecular Formula	C Cs2 O3
Molecular Weight	325.82

## 10. Stability and reactivity

Reactive Hazard	None known, based on information available					
Stability	Hygroscopic.					
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Exposure to moist air or water.					
Incompatible Materials	Metals, Acids					
Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors, Carbon oxides						
Hazardous Polymerization	Hazardous polymerization does not occur.					
Hazardous Reactions	None under normal processing.					

## 11. Toxicological information

## Acute Toxicity

## Product Information

Component Information			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Cesium carbonate	LD50 = 2333 mg/kg (Rat)	Not listed	Not listed
Toxicologically Synergistic Products	No information available		

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation

Risk of serious damage to eyes

Sensitization		No information available						
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.						
Component	CAS-No	IARC	IARC NTP ACGIH OSHA					
Cesium carbonate	534-17-8	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information ava	ilable					
Reproductive Effect	s	May impair fertility.						
Developmental Effe	cts	No information available.						
Teratogenicity		No information available.						
STOT - single exposision STOT - repeated exposision of the second structure of		None known Kidney Adrenal gland Adrenal cortex						
Aspiration hazard		No information available						
Symptoms / effects delayed	,both acute and	and No information available						
Endocrine Disrupto	r Information	No information available						
Other Adverse Effe	cts							

# 12. Ecological information

## Ecotoxicity

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Component	Freshwater Algae		Freshwater Fish Microt		Water Flea			
Cesium carbonate	EC50: 130 mg/l/72H		LC50: >97 mg/l/96H (Danio	Not listed	EC50: 91.6 mg/l/48H			
	· · · ·	okirchneriella	rerio)		(Daphnia magna)			
		capitata)						
Persistence and Degrad	ability	Soluble in wa	ater Persistence is unlikely ba	ased on information a	vailable.			
Bioaccumulation/ Accur	nulation	No information	on available.					
			mabile in the any ironment du	ua ta ita watar aalubili	h.			
Mobility		will likely be	mobile in the environment du		.y.			
		13. Di	sposal considerat	tions				
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classif								
		hazardous waste. Chemical waste generators must also consult local, regional, and						
		national hazardous waste regulations to ensure complete and accurate classification.						
		14. T	ransport informat	tion				
DOT Not regulated								
TDG Not regulated								
IATA Not regulated								
IMDG/IMO	-							

## 15. Regulatory information

## United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Cesium carbonate	534-17-8	Х	ACTIVE	-

#### Legend:

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), Australia (AICS), China (IECSC), Korea (ECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL	
Cesium carbonate	534-17-8	Х	-	208-591-9	Х	Х	Х	Х	KE-05432	
U.S. Federal Regulations										
SARA 313	Not app	Not applicable								
SARA 311/312 Hazard Categori	es See sec	See section 2 for more information								
CWA (Clean Water Act)	Not app	licable								
Clean Air Act	Not app	licable								
<b>OSHA</b> - Occupational Safety and Health Administration	Not app	Not applicable								
CERCLA	Not app	licable								
California Proposition 65	This pro	This product does not contain any Proposition 65 chemicals.								
U.S. State Right-to-Know Regulations	Not app	licable								
<b>U.S. Department of Transportat</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	t <b>ion</b> N N N									
U.S. Department of Homeland Security	This pro	This product does not contain any DHS chemicals.								
Other International Regulations	<u>8</u>									
Mexico - Grade	No infor	mation av	ailable							

16. Other information					
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com				
Creation Date Revision Date Print Date Revision Summary	31-Jul-2014 10-Sep-2019 10-Sep-2019 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**