

SAFETY DATA SHEET

Creation Date 15-October-2009

Revision Date 24-December-2021

Revision Number 8

	1. Identification
Product Name	Sodium carbonate
Cat No. :	BP357-1; S261-10; S263-1; S263-3; S263-10; S263-50; S263-50LC; S263-500; S263-500LC; S495-500
CAS-No Synonyms	497-19-8 Disodium carbonate; Soda ash; Carbonic acid, disodium salt (Anhydrous/Crystalline/Powder/Calcined/Laboratory/Certified ACS/HPLC)
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company Importer/Distributor Fisher Scientific 112 Colonnade Road, Ottawa, ON K2E 7L6, Canada Tel: 1-800-234-7437

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

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

WHMIS 2015 Classification

Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Category 2

Label Elements

Signal Word Warning

Hazard Statements Causes serious eye irritation



Precautionary Statements Prevention

Keep only in original container Wash face, hands and any exposed skin thoroughly after handling Wear eye/face protection **Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Absorb spillage to prevent material damage

Storage

Store in a dry place. Store in a closed container

Disposal

Dispose of contents/container to an approved waste disposal plant

3. Composition/Information on Ingredients

Component	CAS-No	Weight %		
Disodium carbonate	497-19-8	<=100		
	4. First-aid measures			
Eye Contact	Rinse immediately with plenty of water, also medical attention.	under the eyelids, for at least 15 minutes. Get		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.			
Inhalation	Remove to fresh air. If symptoms arise, call respiration.	a physician. If not breathing, give artificial		
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.			
Most important symptoms/effects Notes to Physician	None reasonably foreseeable. Treat symptomatically			

5. Fire-fighting measures

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

Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

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

Hazardous Combustion Products

Sodium 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 2	Flammability 0	Instability 1	Physical hazards N/A
	6. Accidental rel	lease measures	
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.		
Environmental Precautions	Should not be released into Information.	o the environment. See Section	12 for additional Ecological

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

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid dust formation. Avoid ingestion and inhalation. Wash hands before breaks and immediately after handling the product.
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents. Strong acids. Fluorine. Metals.

Exposure controls / personal protection

Exposure	Guidelines

This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. 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

PVC

Eye Protection Hand Protection	Goggles Wear appropriate protectiv	Goggles Wear appropriate protective gloves and clothing to prevent skin exposure.			
Glove material	Breakthrough time	Glove thickness	Glove comments		
Natural rubber	See manufacturers	-	Splash protection only		
Nitrile rubber	recommendations				
Neoprene					

Inspect gloves before use, observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local

conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly **Recommended Filter type:** Particulates filter conforming to EN 143

When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls

No information available.

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		
рН	11.3 @ 20°C (10 g/l aq.sol)		
Melting Point/Range	854 °C / 1569.2 °F		
Boiling Point/Range	1600 °C / 2912 °F @ 760 mmHg		
Flash Point	Not applicable		
Evaporation Rate	Not applicable		
Flammability (solid,gas)	Not flammable		
Flammability or explosive limits			
Upper	No data available		
Lower	No data available		
Vapor Pressure	No information available		
Vapor Density	Not applicable		
Specific Gravity	2.53		
Bulk Density	500-800 kg/m ³		
Solubility	Partially soluble		
Partition coefficient; n-octanol/water	No data available		
Autoignition Temperature	No information available		
Decomposition Temperature	400 °C		
Viscosity	Not applicable		
Molecular Formula	Na2CO3		
Molecular Weight	105.99		

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Hygroscopic.	
Conditions to Avoid	Avoid dust formation. Incompatible products. Excess heat. Exposure to moist air or water.	
Incompatible Materials	Strong oxidizing agents, Strong acids, Fluorine, Metals	
Hazardous Decomposition Products Sodium oxides		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Information

Component Informa	ation					
Component		LD50 Oral LD50 Dermal			LC50 Inhalation	
Disodium carbo		2800 mg/kg (Rat) > 2000 mg/kg (rabbit) 2.3 mg/l 2h (Rat)			∥/I 2h (Rat)	
Toxicologically Syn	ergistic	No information ava	ailable			
Products						
Delayed and immed	liate effects as w	ell as chronic effe	cts from short a	nd long-term expo	sure	
Irritation		Irritating to eyes ar	nd skin			
Sensitization		No information ava	ailable			
Carcinogenicity	genicity The table below indicates whether each agency has listed any ingredient as a carci				as a carcinoger	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Disodium carbonate	497-19-8	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information available				
Reproductive Effect	ts	No information available.				
Developmental Effects No information available.						
Teratogenicity		No information available.				
STOT - single expos STOT - repeated ex		None known None known				
Aspiration hazard		No information available				
Symptoms / effects delayed	s / effects, both acute and No information available					
Endocrine Disruptor Information No information available						
Other Adverse Effects The toxicological properties have not been fully investigated.						

12. Ecological information

Ecotoxicity Do not empty into drains. .

Component	Freshwater Alg	ae Freshwater Fish	Microtox	Water Flea	
Disodium carbonate	Not listed	Lepomis macrochirus: LC50:	-	EC50: = 265 mg/L, 48h	
		300 mg/L/96h		(Daphnia magna)	
		Gambusia affinis: LC50: 740			
		mg/L/96h			
Persistence and Degrada	ability Solub	le in water Persistence is unlikely	based on information avai	lable.	
Bioaccumulation/ Accun	nulation No inf	No information available.			
Mobility	Will likely be mobile in the environment due to its water solubility.				
13. Disposal considerations					
Vaste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.			local, regional, and		

	14. Transport information		
DOT TDG IATA	Not regulated		
TDG	Not regulated		
ΙΑΤΑ	Not regulated		
IMDG/IMO	Not regulated		
15. Regulatory information			

International Inventories

Component	CAS-No	DSL	NDSL	TSCA	notific	nventory ation - Inactive	EINECS	ELINCS	NLP
Disodium carbonate	497-19-8	Х	-	Х	ACT	ΓIVE	207-838-8	-	-
Component	CAS-No	IECSC	KECL	ENCS	ISHL	TCSI	AICS	NZIoC	PICCS
Disodium carbonate	497-19-8	X	KE-31380	Х	Х	Х	Х	Х	Х

Legend:

X - Listed '-' - Not Listed

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

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

Other International Regulations

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	U
Disodium carbonate	-	Use restricted. See item 75.	-
		(see link for restriction details)	

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

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)
Disodium carbonate	497-19-8	Listed	Not applicable	Not applicable	Not applicable
Component	CAS-No	Seveso III Directive	Seveso III Directive	Rotterdam	Basel Convention

Component	CAS-No	Seveso III Directive	Seveso III Directive	Rotterdam	Basel Convention	
		(2012/18/EC) -	(2012/18/EC) -	Convention (PIC)	(Hazardous Waste)	
		Qualifying Quantities	Qualifying Quantities		-	
		for Major Accident	for Safety Report			
		Notification	Requirements			
Disodium carbonate	497-19-8	Not applicable	Not applicable	Not applicable	Not applicable	

16. Other information				
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com			
Creation Date Revision Date Print Date Revision Summary	15-October-2009 24-December-2021 24-December-2021 This document has been updated to comply with the requirements of WHMIS 2015 to align with the Globally Harmonised System (GHS) for the Classification and Labelling of Chemicals.			

Disclaimer

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End of SDS