

SAFETY DATA SHEET

Creation Date 29-Jan-2010Revision Date 27-Jul-2017Revision Number 51. IdentificationProduct NameSodium bicarbonateCat No. :AC217120000; AC217120010; AC217120025; AC217120100;

Synonyms

Sodium hydrogen carbonate

AC217120250; AC217125000

Recommended Use Uses advised against

Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

Details of the supplier of the safety data sheet

Company 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 not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

Hazard Statements

Precautionary Statements Hazards not otherwise classified (HNOC) None identified

3. Composition / information on ingredients

weight 70
>95

4. First-aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur.
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

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	
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 Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes.

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.

<u>NFPA</u> Health 0	Flammability 0	Instability 1	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions Environmental Precautions	Ensure adequate ventilatio Should not be released into	n. Use personal protective equentiation of the environment.	uipment. Avoid dust formation.
Methods for Containment ar Up	nd Clean Sweep up or vacuum up sp formation.	illage and collect in suitable c	ontainer for disposal. Avoid dust
	7. Handling a	and storage	
Handling	• •	quipment. Ensure adequate ve ith skin, eyes and clothing. Ave	entilation. Avoid ingestion and bid dust formation.
Storage	Keep containers tightly close	sed in a dry, cool and well-ven	tilated place.
	8. Exposure controls	personal protecti	on
Exposure Guidelines	•	ain any hazardous materials w jion specific regulatory bodies.	· · ·

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.			
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	No protective equipment is needed under normal use conditions.			
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.			

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	8.3 0.1M aq. solution
Melting Point/Range	270 °C / 518 °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	Slightly soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	
Decomposition Temperature	> 50°C
Viscosity	Not applicable
Molecular Formula	C H Na O3
Molecular Weight	84.01

10. Stability and reactivity					
Reactive Hazard	None known, based on information available				
Stability	Hygroscopic.				
Conditions to Avoid	Avoid dust formation. Incompatible products. Exposure to moist air or water. Excess heat. Temperatures above 50°C.				
Incompatible Materials	Strong oxidizing agents, Acids				
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	tion								
Component		LD50 Oral				Inhalation			
Sodium bicarbo	nate	LD50 = 4220 mg/kg (F	Rat)	Not listed	No	Not listed			
Toxicologically Syn Products	ergistic	No information ava	No information available						
Delayed and immed	iate effects	as well as chronic effe	cts from short a	nd long-term expo	sure				
Irritation		No information ava	No information available						
Sensitization		No information ava	ilable						
Carcinogenicity		The table below in	dicates whether e	each agency has lis	ted any ingredient	as a carcinogen.			
Component	CAS-N	D IARC	NTP	ACGIH	OSHA	Mexico			
Sodium bicarbonate	144-55-	8 Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects		No information ava	No information available						
Reproductive Effect	S	No information ava	No information available.						
Developmental Effe	cts	No information ava	ilable.						
Teratogenicity		No information ava	ilable.						
STOT - single expos STOT - repeated exp		None known None known							
Aspiration hazard		No information ava	No information available						
Symptoms / effects delayed	,both acute	and No information ava	d No information available						
Endocrine Disrupto	r Informatic	ion No information available							
	her Adverse Effects The toxicological properties have not been fully investigated.								

12. Ecological information

Ecotoxicity

Component	Freshwater Algae		Freshwater Fish	Microtox	Water Flea		
Sodium bicarbonate	EC50: 650 mg/L/120h		LC50: 8250 - 9000 mg/L, 96h static (Lepomis macrochirus)	-	EC50: 2350 mg/L/48h		
Persistence and Degrad	ability	Soluble in wa	ater Persistence is unlikely	based on information ava	ilable.		
Bioaccumulation/ Accumulation No informati		ation available.					
Mobility	Will likely be		likely be mobile in the environment due to its water solubility.				
	13. Disposal considerations						
Waste Disposal Methods	5	Chemical waste generators must determine whether a discarded chemical is class 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	Not regulated
DOT TDG IATA	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Sodium bicarbonate	Х	Х	-	205-633-8	-		Х	Х	Х	Х	Х

Legend: X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA. F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable

SARA 311/312 Hazard Categories	
Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA

Not applicable

California Proposition 65	This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations	Not applicable

U.S. Department of Transportation

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

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade	No information available
	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	29-Jan-2010 27-Jul-2017 27-Jul-2017 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