

SAFETY DATA SHEET

Creation Date 29-Jan-2010

Revision Date 17-Feb-2014

Revision Number 1

1. Identification

Product Name

AC447100000, AC447100010, AC447102500

Sodium bicarbonate

Sodium hydrogen carbonate

Laboratory chemicals.

Synonyms

Cat No. :

Recommended Use

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Entity / Business Name 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 Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2B Category 3

Label Elements

Signal Word Warning

Hazard Statements

Causes eye irritation May cause respiratory irritation



Precautionary Statements Prevention Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

Storage

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

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 %			
Sodium bicarbonate		144-55-8	>95			
	4	First aid massures				
	4.1	First-aid measures				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minu Obtain medical attention.					
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention symptoms occur.					
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptom occur.					
Ingestion	Do not induce	e vomiting. Obtain medical attention.				
Most important symptoms/effects Notes to Physician	No informatio Treat symptor					
	5. Fir	re-fighting measures				
Suitable Extinguishing Media	Substance is	nonflammable; use agent most appr	opriate to extinguish surrounding fire.			
Unsuitable Extinguishing Media	No informatio	n available				
Flash Point	Not applicable	е				

Flash Point Method -

Autoignition Temperature Explosion Limits Upper No data available Lower No data available

LowerNo data availableSensitivity to Mechanical ImpactNo information availableSensitivity to Static DischargeNo 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.

No information available

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 2	Flammability 0	Instability 1	Physical hazards N/A					
6. Accidental release measures								
Personal Precautions Environmental Precautions		Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. Should not be released into the environment. See Section 12 for additional ecological information.						
Methods for Containment and Clea Up	n Sweep up or vacuum up sp formation.	illage and collect in suitable cor	ntainer for disposal. Avoid dust					
	7. Handling a	and storage						
Handling		quipment. Ensure adequate ver and inhalation. Avoid dust forma						
Storage	Keep containers tightly clos	ed in a dry, cool and well-ventil	ated place.					
8. Exposure controls / personal protection								
Exposure Guidelines	This product does not conta established by the region s	ain any hazardous materials witl pecific regulatory bodies.	h occupational exposure limits					
Engineering Measures	None under normal use cor	nditions.						
Personal Protective Equipment								
Eye/face Protection		e eyeglasses or chemical safety ction regulations in 29 CFR 191						
Skin and body protection	Wear appropriate protective	e gloves and clothing to prevent	skin exposure.					
Respiratory Protection	No protective equipment is	needed under normal use cond	itions.					
Hygiene Measures	Handle in accordance with	good industrial hygiene and safe	ety 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	Not applicable
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
Relative Density	No information available
Solubility	Slightly soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	
Decomposition Temperature	> 50°C
-	

Viscosity Molecular Formula Molecular Weight -	Not applicable C H Na O3 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 Thermal decomposition.

11. Toxicological information

Acute Toxicity

Product Information

Component Information			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium bicarbonate	4220 mg/kg (Rat)	Not listed	Not listed
Toxicologically Synergistic	No information available		

Products

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

Irritation Irritating to eyes and skin Moderately irritating to the eyes

Sensitization No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	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	ailable				
Reproductive Effect	s	No information available.					
Developmental Effe	cts	No information available.					
Teratogenicity		No information available.					
STOT - single exposision STOT - repeated exposite structure of the second stru		Respiratory system None known					
Aspiration hazard		No information available					
Symptoms / effects	,both acute and	No information ava	ailable				
delayed Endocrine Disrupto	r Information	No information available					
Other Adverse Effe	cts	The toxicological p	roperties have not	been fully investig	jated.		

12. Ecological information

Ecotoxicity

Component	Freshwater Algae	Freshwater Algae Freshwater Fish Microtox Water		Water Flea	
Sodium bicarbonate	EC50: 650 mg/L/120h	8250 - 9000 mg/L LC50 96 h	-	EC50: 2350 mg/L/48h	
Persistence and Degrada Bioaccumulation/ Accun					
obility Will likely be mobile in the environment due to its water solubility.					
	13. Di	sposal considera	ations		
Waste Disposal Methods	hazardous w	aste generators must detern vaste. Chemical waste gen ardous waste regulations to	erators must also consu		
	14. 7	ransport informa	ation		
DOT	Not regulate	d			

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

International Inventories

Sodium bicarbonate X X - 205-633-8 - X </th <th>Component</th> <th>TSCA</th> <th>DSL</th> <th>NDSL</th> <th>EINECS</th> <th>ELINCS</th> <th>NLP</th> <th>PICCS</th> <th>ENCS</th> <th>AICS</th> <th>IECSC</th> <th>KECL</th>	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 Hazardous Categoriz Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Haz Reactive Hazard		Yes Yes No No No
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

State Right-to-Know

Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
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

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

D2B Toxic materials

Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com



16. Other information

Prepared By

Creation Date Revision Date Print Date Revision Summary 29-Jan-2010 17-Feb-2014 17-Feb-2014 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 on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of SDS