

# SAFETY DATA SHEET

Creation Date 29-Jan-2010 Revision Date 17-Feb-2014 **Revision Number 1** 

1. Identification

**Product Name** Sodium bicarbonate

Cat No.: AC123360000; AC123360010; AC123360050; AC123360250

Sodium hydrogen carbonate **Synonyms** 

**Recommended Use** Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company **Entity / Business Name** Fisher Scientific

Acros Organics One Reagent Lane

Fair Lawn, NJ 07410 Fair Lawn, NJ 07410 Tel: (201) 796-7100

**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

One Reagent Lane

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 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. Obtain medical attention.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. Obtain medical attention.

**Ingestion** Do not induce vomiting. Obtain medical attention.

Most important symptoms/effects

Notes to Physician

No information available. Treat symptomatically

## 5. Fire-fighting measures

Suitable Extinguishing Media Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

Unsuitable Extinguishing Media No information available

Flash Point Not applicable

Method - No information available

**Autoignition Temperature** 

**Explosion Limits** 

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**

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.

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NFPA

Health **Flammability** Instability 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 Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation. Up

7. Handling and storage

Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin Handling

and eyes. Avoid ingestion and inhalation. Avoid dust formation.

Keep containers tightly closed in a dry, cool and well-ventilated place. **Storage** 

8. Exposure controls / personal protection

This product does not contain any known or suspected reproductive hazards **Exposure Guidelines** 

**Engineering Measures** None under normal use conditions.

**Personal Protective Equipment** 

Wear appropriate protective eyeglasses or chemical safety goggles as described by **Eye/face Protection** 

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.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures** 

9. Physical and chemical properties

Powder Solid **Physical State** White **Appearance** Odor Odorless

**Odor Threshold** No information available 8.3 0.1M aq. solution Hq

270 °C / 518 °F Melting Point/Range **Boiling Point/Range** No information available

Flash Point Not applicable **Evaporation Rate** Not applicable No information available

Flammability (solid,gas)

Flammability or explosive limits No data available Upper Lower No data available

**Vapor Pressure** No information available

**Vapor Density** Not applicable

**Specific Gravity** No information available Slightly soluble in water Solubility No data available

Partition coefficient; n-octanol/water

**Autoignition Temperature** 

**Decomposition Temperature** > 50°C

ViscosityNot applicableMolecular FormulaC H Na O3Molecular Weight84.01

## 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** 

LD50 Oral	LD50 Dermal	LC50 Inhalation
LD50 = 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					

Mutagenic Effects No information available

Reproductive Effects No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure Respiratory system STOT - repeated exposure None known

3101 - Tepeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and No information available

delayed

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

# 12. Ecological information

### **Ecotoxicity**

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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 Degradability Bioaccumulation/ Accumulation

Soluble in water Persistence is unlikely based on information available.

No information available.

**Mobility** Will likely be mobile in the environment due to its 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 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.

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

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	<b>ENCS</b>	AICS	IECSC	KECL
Sodium bicarbonate	Х	Χ	-	205-633-8	-		Χ	Χ	Χ	Х	X

#### 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 No
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): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

### **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



## 16. Other information

Prepared By Regulatory Affairs

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Revision Summary

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**