

Safety Data Sheet Version 3.10 Revised: 2016-05-02

1. PRODUCT AND COMPANY IDENTIFICATION

<u>Product Identifier</u> Product Name	Sodium Bicarbonate
<u>Other means of identification</u> Product Code(s) Synonyms	A4179 No information available
Product Use	For Laboratory Research Use Only.
Supplier/Manufacturer Biomatik Corporation 9-140 McGovern Dr. Cambridge, Ontario N3H 4R7 Canada	
Telephone Number	1-519-489-7195
E-mail Address	info@biomatik.com
Emergency Telephone Number	Chemtrec 1-800-424-9300
	2. HAZARDS IDENTIFICATION
<u>Classification</u>	
OSHA Regulatory Status This chemical is not considered haza	rdous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122)
Label elements	
	Emergency Overview

Appearance Fine white

Physical State Crystalline Powder

Odor No information available

Hazards not otherwise classified (HNOC) Not regulated Other Information May be harmful if swallowed Unknown Acute Toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
Sodium Bicarbonate	144-55-8	205-633-8	95-100	Not applicable

4. FIRST AID MEASURES

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First Aid Measures	
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Inhalation	Move to fresh air. If not breathing, give artificial respiration.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth.
Most important symptoms and effect	cts, both acute and delayed
Most Important Symptoms/Effects	No information available.
Indication of any immediate medica	l attention and special treatment needed
Notes to Physician	Treat symptomatically.
	5. FIRE-FIGHTING MEASURES
Suitable Extinguishing Media Use extinguishing measures that are a Unsuitable Extinguishing Media	appropriate to local circumstances and the surrounding environment.
Specific Hazards Arising from the C No information available.	hemical
<u>Explosion Data</u> Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t None. None.
Protective Equipment and Precaution As in any fire, wear self-contained breat protective gear.	ons for Firefighters athing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full
	6. ACCIDENTAL RELEASE MEASURES
Personal precautions, protective eq	uipment and emergency procedures
Personal protection	Ensure adequate ventilation, especially in confined areas.
Environmental Precautions	
Environmental Precautions	See Section 12 for additional Ecological information.
Methods and material for containing	ent and cleaning up

Methods and material for containment and cleaning up

Methods for ContainmentPrevent further leakage or spillage if safe to do so.Methods for Cleaning UpAvoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area
and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling

Handle in accordance with good industrial hygiene and safety practice. Protect from

	moisture.				
Conditions for safe storage, incl	luding any incompatibilities				
Storage	Keep containers tightly closed moisture.	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture.			
Incompatible Products	Strong oxidizing agents. Stron	g acids.			
8.	EXPOSURE CONTROLS/PE	RSONAL PROTECTION			
Control parameters					
Exposure Guidelines	This product does not contain established by the region spec	any hazardous materials with or cific regulatory bodies.	ccupational exposure limits		
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH		
Sodium Bicarbonate	-	-	-		
Appropriate engineering control	ls				
Engineering Measures	Showers Eyewash stations Ventilation systems.				
Individual protection measures,	such as personal protective equi	pment			
Eye/Face Protection	Avoid contact with eyes. Safet	Avoid contact with eyes. Safety glasses with side-shields.			
Skin and Body Protection	Wear protective gloves/clothin	g.			
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.				
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.				
	9. PHYSICAL AND CHEM	ICAL PROPERTIES			
Information on basic physical ar	nd chemical properties				
Physical State	Crystalline Powder				
Appearance	Fine white	Odor	No information available		
Color	No information available	Odor Threshold	No information available		
Property	<u>Values</u>	Remarks • Method			
pH	8.3				
Melting point/freezing point	60 °C				
Boiling Point/Range	No information available				
Flash Point (High in °C)	No information available				
Evaporation Rate	No information available				
Flammability (solid, gas) Flammability Limit in Air	No information available				
Upper flammability limit:	No information available				
Lower flammability limit:	No information available				
Vapor pressure	No information available				
Vapor Density	No information available				
Specific Gravity	2.2				
Water Solubility Solubility in other solvents	No information available No information available				

No information available

No information available

Partition coefficient

Autoignition Temperature

Decomposition Temperature Kinematic viscosity Dynamic viscosity Explosive Properties Oxidizing Properties Other Information	No information available No information available No information available No information available No information available
Softening Point	No information available
Molecular Weight	No information available
VOC Content	No information available
Density	No information available

10. STABILITY AND REACTIVITY

No information available

Reactivity

Bulk Density

No data available

<u>Chemical Stability</u> Stable under recommended storage conditions. <u>Possibility of Hazardous Reactions</u> None under normal processing. <u>Conditions to Avoid</u> Protect from moisture. <u>Incompatible Materials</u> Strong oxidizing agents. Strong acids. <u>Hazardous Decomposition Products</u> None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Chamiaal Nama			LCE0 in heletien	
Ingestion	There is no data available	ofor this product.		
Skin Contact	There is no data available for this product.			
Eye Contact	There is no data available	There is no data available for this product.		
Inhalation	There is no data available	o for this product.		
oduct Information	Product does not present an acute toxicity hazard based on known or supplied information			

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium Bicarbonate	= 4220 mg/kg (Rat)	-	-

Information on toxicological effects

Symptoms

No information available.

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

Sensitization Mutagenic Effects Carcinogenicity	No information available. No information available. No information available.			
Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium Bicarbonate	-	-	-	-
Reproductive Toxicity STOT - single exposure	No information available. No information available.			

STOT - repeated exposure No information available. Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity The following values are calculated based on chapter 3.1 of the GHS document

12. ECOLOGICAL INFORMATION

Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants		Toxicity to Fish	Crustacea
Sodium Bicarbonate	650: 120 h Nitzschia linearis mg/L	825	0 - 9000: 96 h Lepomis	2350: 48 h Daphnia magna mg/L
	EC50	macr	ochirus mg/L LC50 static	EC50

Persistence and Degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Chemical Name	Partition coefficient
Sodium Bicarbonate	-

Other Adverse Effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method

Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging

Do not re-use empty containers.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Sodium Bicarbonate	-	-	-	-

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Sodium Bicarbonate	-	-	-	-

Chemical Name	California Hazardous Waste Status
Sodium Bicarbonate	-

14. TRANSPORT INFORMATION

DOT Not regulated

IATA

TSCA

Not regulated

15. REGULATORY INFORMATION International Inventories Complies

DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
KECL	Complies
PICCS	Complies
AICS	Complies
	-

Legend

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

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

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

 ENCS - Japan Existing and New Chemical Substances

 IECSC - China Inventory of Existing Chemical Substances

 KECL - Korean Existing and Evaluated Chemical Substances

 PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	SARA 313 - Threshold Values %	
Sodium Bicarbonate	-	

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium Bicarbonate	-	-	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sodium Bicarbonate	-	-	-

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

Chemical Name	California Prop. 65
Sodium Bicarbonate	-

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium Bicarbonate	-	-	-

U.S. EPA Label Information

EPA Pesticide Registration Number Not regulated

16. OTHER INFORMATION

Disclaimer

The information provided on this MSDS 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 Safety Data Sheet