SAFETY DATA SHEET

GENERAL STORAGE CODE GREEN

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Section 1

Identification

INNOVATING SCIENCE® by Aldon 221 Roc Avon, N

"Cutting edge science for the classroom"

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

For laboratory and industrial use only. Not for drug, food or household use.

Product	SODIUM BICARBONATE, ANHYDROUS	
Synonyms	Baking Soda / Sodium Hydrogen Carbonate / Carbonic Acid Sodium (1:1)	
Section 2	Hazards identification	
This substa to the Glob Chemicals. Signal word Pictograms Target orga GHS Classi	ance or mixture has not been classified as hazardous according ally Harmonized System (GHS) of Classification and Labeling of	Precautionary statement(s): Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information on ingredients					
Chemical Name	CAS #	%	EINECS		
Sodium bicarbonate	144-55-8	100%	205-633-8		
Section 4 First aid measures	6				

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material is commonly used to extinguish fires.

Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling and storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Store away from acids.

Section 8	Exposure controls / personal protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
	Sodium bicarbonate	None established	None established	None established		

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 9	Physical and chemical pr	operties	
Odor: No odor. Odor threshold: Data pH: 8.2 (1% solution)	int: Data not available	Evaporation rate (=1): Data not available Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): Negligible Vapor density (Air = 1): Data not available Relative density (Specific gravity): 2.16 @ 20°C Solubility(ies): 8.6 g/100 ml water at 20°C	Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available Viscosity: Data not available. Molecular formula: NaHCO ₃ Molecular weight: 84.01
Section 10	Stability and reactivity		
Observised stability (Dt-hl-	Hennedaus a charactication. M/ill a starson	

Chemical stability: Stable

ERG: Emergency Response Guidebook.

Form 06/2015

Hazardous polymerization: Will not occur.

Conditions to avoid: High temperature causes decomposition to sodium carbonate, water and carbon dioxide.

Incompatible materials: Reacts with acids to yield acid salts, water and carbon dioxide.

Hazardous decomposition products: Gaseous carbon dioxide.

Section 11 Toxicological information

Section II	Toxicological Into	mation						
•	I-rat LD50: 4220-4400	0 0						
	ation: Skin-rabbit - not	0						
	e/irritation: Eye-rabbi		ig					
	sensitization: Non se	•						
Carcinogenity: Dat	icity: Data not availab	е						
• •	of this product present	at levels are	ater than or e	aual to 0.1% is identi	fied as a known or a	nticinated carci	nogen hy NTP	
	t of this product preser							cinogen by IARC.
	nt of this product prese							0 ,
Ca Prop 65: This pro	duct does not contain a	any chemical	s known to th	ie State of California t	o cause cancer or re	eproductive toxic	city.	
Reproductive toxic	ity: Data not available							
U 1	ure: Data not available							
	osure: Data not availa	ible						
Aspiration hazard:								
Potential health eff		inatan (traat						
	e dust may irritate resp may cause gastrointes		nco if indosto	d				
Skin: No hazard kno			ince il ingeste					
	eyes may cause very sl	ight irritation						
	ns of exposure: See I			ove.				
Additional informat	ion: RTECS #: VZ09	50000						
Section 12	Ecological information	ation						
Toxicity to daphnia Toxicity to algae: N Persistence and de Mobility in soil: No	mbusia affinis (fish, fre and other aquatic inv itcheria linearis (Algae) gradability: No data a data available ts: An environmental l	ertebrates: LC50: 650 n vailable	Daphnia mag ng/l/5 day Bioaccumu PBT and v	na (Crustacea) EC50 ulative potential: No PvB assessment: N	o data available o data available			
Section 13	Disposal consider	ations						
								container. State and/or local emical disposal agency.
Section 14	Transport information	ation						
UN/NA number:	Not applicable	Shippin	g name: N	lot Regulated				
Hazard class: No	ot applicable	Packing	group: N	ot applicable	Reportable Qu	antity: No	Ма	arine pollutant: No
Exceptions: Not	applicable	2020 ER	G Guide #	Not applicable		-		
Section 15	Regulatory inform	ation						
A chemical is considere	d to be listed if the CAS n	umber for the a	nhydrous form	is on the Inventory list.				
Compone	ent		TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Sodium bicarbonate			Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16	Other information							
dent determinations of	suitability and completenes ncy for Research on Cano	s of information	on from all sour	ces to assure proper use	e of these materials and	d the safety and h	ealth of employees	ered by them and must make indepen- s. NTP: National Toxicology Program, osure, RE: Repeated Exposure,

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	5 5	NOT FOR ARUS, 1004 OF NOUSENOIA USE.
Product	SODIUM CARBONATE, ANHYDROUS	
Synonyms	Soda Ash	
Section 2	Hazards identification	
Pictograms Target orga GHS Classi Eye irrit. (Ca GHS Label	ns: None known.	 Precautionary statement: P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

FILYSICAL HAZALUS	not otherwise classified (FHNOC) - Not Known	
Section 3	Composition / information on ingredients	

Chemical Name	CAS #	%	EINECS		
Sodium carbonate	497-19-8	100%	207-838-8		
Section 4 First aid measures		1	1		

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Extinguishing Media: Use any media suitable for extinguishing supporting fire.

General information: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool. Sodium carbonate reacts with hydrated lime to form caustic soda. Special care should be taken where lime and sodium carbonate are handled in the same area.

Section 6 Accidental release measures

Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.

Section 7 Handling and storage

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. Keep out of reach of children. Use with adequate ventilation. Wash thoroughly after handling

Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale dusts. Wash thoroughly after handling. Remove and wash clothing before reuse.

Section 8 Exposure controls / personal protection **Chemical Name** ACGIH (TLV) OSHA (PEL) NIOSH (REL) Exposure Limits: Sodium carbonate None established. None established None established Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low. Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator. Physical and chemical properties Section 9 Appearance: Solid, white powder. Evaporation rate (= 1): Data not available Partition coefficient: Data not available Odor: No odor. Flammability (solid/gas): Data not available. Auto-ignition temperature: Data not available Odor threshold: Data not available. Explosion limits: Lower / Upper: Not flammable Decomposition temperature: 1000°C (1832°F) Vapor pressure (mm Hg): Data not available pH: Data not available Viscosity: Data not available. Molecular formula: Na₂CO₃ Melting / Freezing point: 864°C (1587°F) Vapor density (Air = 1): Data not available Relative density (Specific gravity): 2.533 Boiling point: Decomposes Molecular weight: 105.99 Flash point: Not flammable Solubility(ies): 17% @ 20°C in water Section 10 Stability and reactivity Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures. Hygroscopic material, avoid moisture. Incompatibilities with other materials: Acids cause decompostion liberating gaseous carbon dioxide. When mixed with lime dust and water, corrosive and caustic soda may be produced. Hazardous decomposition products: Carbon dioxide. Section 11 **Toxicological information** Acute toxicity: Oral-rat LD50: 4090 mg/kg ; Inhalation-rat LC50: 2.3 mg/l/2 hours ; Dermal-rat LD50: 2210 mg/kg Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available Carcinogenity: Data not available NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity. Reproductive toxicity: Data not available STOT-single exposure: Data not available. STOT-repeated exposure: Data not available Aspiration hazard: Data not available Potential health effects: Inhalation: May be harmful if inhaled. Causes respiratory tract irritation. Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed. Skin: May be harmful if absorbed through skin. Causes skin irritation. Eves: Causes eve irritation. Signs and symptoms of exposure: Burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting Additional information: RTECS #: VZ4050000 Section 12 **Ecological information** Toxicity to fish: LC50 - Lepomis macrochirus (Bluegill) - 300 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna (Water flea) - 265 mg/l - 48 h Toxicity to algae: No data available Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Section 13 **Disposal considerations** These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. Section 14 Transport information UN/NA number: Not applicable Shipping name: Not Regulated Hazard class: Not applicable Packing group: Not applicable Reportable Quantity: No Marine pollutant: No Exceptions: Not applicable 2020 ERG Guide # Not applicable Section 15 **Regulatory information** A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. DSL NDSL RCRA code CA Prop 65 Component TSCA CERLCA (RQ) This product does not contain Sodium carbonate Listed Not listed Not listed Not listed Not listed any chemicals known to the State of California to cause cancer or reproductive toxicity. Section 16 Other information The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program,

IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook