

Science Kit
& Boreal
Laboratories

7 East Park Drive
Lawrence, NY 14150 6781
(716) 874-6020

Science Kit & Boreal
P.O. Box 5059
815 Fiero Lane
San Luis Obispo, CA 93403

MATERIAL SAFETY DATA SHEET

Boreal Laboratories Ltd.
399 Vansickle Road
St Catharines, Ontario L2S 3T4

MSDS No. SS 360
Effective Date October 16, 1991

SECTION I NAME		24 HOUR EMERGENCY ASSISTANCE	
Product	SODIUM CARBONATE, ANHYDROUS	CHEMTREC 800-424-9300 Day 716-226-6177 Night 716-334-4222 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * Health 1 Fire 0 Reactivity 1	
Chemical Synonyms	Soda Ash		
Formula	Na ₂ CO ₃		
Unit(s) Size	100, 500 grams; 2.5 Kg.		
C.A.S. No.	497-19-8		

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES		
Principal Hazardous Component(s)	%	TLV Units
Sodium Carbonate, Anhydrous	100%	None established.
WARNING! CAUSES SKIN AND EYE IRRITATION. HARMFUL IF SWALLOWED.		

SECTION III PHYSICAL DATA			
Melting Point (°F)	851°C (1564°F)	Specific Gravity (H ₂ O = 1)	2.533 at 25°C
Boiling Point (°F)	Decomposes at 1000°C (1832°F)	Percent Volatile by Volume (%)	Non-volatile (NA).
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (n-Butyl Acetate=1)	Non-volatile (NA).
Vapor Density (Air=1)	Data not listed.		
Solubility in Water	28.6 grams per 100 mL. water at 20°C.		
Appearance & Odor	White powder or granular; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA				
Flash Point (Method Used)	Non-combustible (NA).	Flammable Limits in Air % by Volume	NA	Lower Upper
Extinguisher Media	None required. Product inherent fire retardant.			

SPECIAL FIREFIGHTING PROCEDURES	Its presence in a fire does not hinder the use of any standard extinguishing media. Wear self-contained breathing apparatus approved by NIOSH.
---------------------------------	--

UNUSUAL FIRE AND EXPLOSION HAZARDS	None. Note decomposition beginning temperature, Section III and decomposition products, Section IV. Can react vigorously with acids.
------------------------------------	--

D.O.T.	NON-REGULATED
Approved by U.S. Department of Labor "essentially similar" to form OSHA-20	

SECTION V HEALTH HAZARD DATA	
Threshold Limited Value	None established. LD ₅₀ 2.8 g/kg. (16CFR 1500.3)

Effects of Overexposure	INHALATION: High dust concentrations may cause upper respiratory tract irritation. EYES: Contact with the powder may cause eye irritation. SKIN: Prolonged or repeated skin contact may cause skin irritation. INGESTION: Of large quantities may occur and produce corrosion of G.I. tract, vomiting, diarrhea, circulatory collapse, death.
-------------------------	---

Emergency and First Aid Procedures	EYES: Immediately flush eyes with plenty of water and get medical attention. SKIN: Flush skin with plenty of water. Then wash with soap and water. INHALATION: Remove to fresh air. Get medical attention if ill effects develop. INGESTION: If swallowed, do NOT induce vomiting. If conscious, give one or two glasses of water to drink. Treat symptomatically and supportively. Get medical attention.
------------------------------------	--

SECTION VI				REACTIVITY DATA	
Stability	Unstable		Conditions to Avoid	Acids and acid fumes. Excessive temperature and heat.	
	Stable	X			
Incompatibility (Materials to Avoid)		Aluminum; fluorine; phosphorus pentoxide. Acids cause decomposition liberating gaseous carbon dioxide.			
Hazardous Decomposition Products			Carbon dioxide (CO ₂).		
Hazardous Polymerization			Conditions to Avoid		
May Occur	Will Not Occur		Not applicable.		
	X				

SECTION VII SPILL OR LEAK PROCEDURES	
Steps to be taken in case material is released or spilled	Sweep up and place in a suitable container. Wash spill area with water.

Waste Disposal Method	Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.
	Dissolve in water and flush to sewer with copious amounts of water.

SECTION VIII SPECIAL PROTECTION INFORMATION				
Respiration Protection (Specify Type)	None required in normal handling; under extreme dusting conditions a standard particulate respirator is desirable.			
Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.
Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.	
Other Protective Equipment	Smock, apron, eye wash station, goggles, proper gloves.			

SECTION IX SPECIAL PRECAUTIONS	
Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from acid or acid fumes. Wash thoroughly after handling.
Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.

Hygroscopic - keep container tightly closed when not in use. Avoid contact with skin and eyes. Remove and wash contaminated clothing.						
For laboratory use only. Not for drug, food or household use. Keep out of reach of children.						
Rev. No.	No. 2	Date	10/16/91	Approved Alexander A. Piccirilli	Chemical Safety Coordinator	AP
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. * Hazardous Materials Industrial Standards.						