

SAFETY DATA SHEET

SECTION I – Product and Company Identification

Product Name: NUCLO Brand 1901 - 1960, 3106 TOTAL ALKALINITY POWDER

Chemical Name: Sodium Bicarbonate

Synonyms: Baking Soda, Bicarbonate of Soda

Pure Substance/preparation: Substance

Formula: NaHCO₃

Manufacturer: Qualco, Inc.

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Passaic, NJ 07055

Telephone: 973-473-1222

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Emergency: 1-800-424-9300 (ChemTrec)

SECTION II – Hazards Identification

Emergency Overview: Not classified as hazardous, white crystalline powder

Potential Health Effects

Acute Toxicity: No significant health effects anticipated



SECTION III – Composition/Ingredient Information

Chemical Name: Sodium Bicarbonate

CAS No.: 144-55-8

Weight %: 100

SECTION IV – First Aid Measures

Eye Contact: Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.

Skin Contact: Wash skin with soap and water. Get medical attention if irritation develops and persists.

Inhalation: Remove person to fresh air. If signs/symptoms continue, get medical attention.

Ingestion: Drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

SECTION V – Firefighting Measures

Flammable Properties: Noncombustible

Flash Point: Not combustible

Suitable Extinguishing Media: Water spray, dry chemical, carbon dioxide (CO₂), or foam

Hazardous Combustion Products: None

Explosion Data: Not sensitive to Mechanical Impact or Static Discharge

NFPA/HMIS Ratings Legend: Severe = 4 Serious = 3 Moderate = 2 Slight = 1 Minimal = 0

Health = 0

Flammability = 0

Stability = 0

Special Hazards - None

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid dust formation

Methods for Containment: Material may be recycled when contamination is not a problem

Methods for Cleaning Up: Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with all applicable national environmental laws and regulations.

SECTION VII – Handling and Storage

Handling: Use air conveying mechanical systems for bulk transfer to storage. Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment.

Storage: Keep in a dry, cool, well ventilated place. Keep away from heat. Keep away from incompatible products (acids).

Specific Use(s): None known

SECTION VII – HANDLING & STORAGE

Handling: Use air conveying / mechanical systems for bulk transfer to storage. For manual handling of bulk transfer, use mechanical ventilation to remove airborne dust from railcar, ship or truck. Use approved respiratory protection when ventilation systems are not available. Selection of respirators is based on the dust cloud generation. Keep material out of lakes, streams, ponds and sewer drains. Avoid eye contact or prolonged skin contact. Avoid breathing dusts. When dissolving, add to water cautiously and with stirring, solutions can get hot. Use good personal hygiene and housekeeping.

Storage: Store in a cool dry area, away from acids. Prolonged storage may cause product to cake from atmospheric moisture.

SECTION VIII – Exposure Controls/Personal Protection

Exposure Guidelines:
This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. Local nuisance dust standards apply.

Occupational Exposure Controls:
Engineering Measures: Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction

Personal Protective Equipment:
General Information: If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.
Respiratory Protection: Whenever dust in the worker’s breathing zone cannot be controlled with ventilation or other engineering means, workers should wear respirators or dust masks approved by NIOSH/MSHA, EUCEN or compatible organization to protect against airborne dust.
Eye/Face Protection: Safety glasses with side shields
Skin and Body Protection: Wear suitable clothing. Protective shoes or boots.
Hand Protection: Protective gloves.
Hygiene Measures: Handle in accordance with good industrial hygiene and safety practice.

SECTION IX – Physical and Chemical Properties

Appearance:	Crystalline Powder
Color:	White
Physical State:	Solid
Odor:	Odorless
Odor Threshold:	Not Applicable
pH:	8.3 (1% solution) @ 25°C
Melting Point/Range:	Decomposes
Freezing Point:	No Information Available
Boiling Point/Range:	Not Applicable
Flash Point:	Not Combustible
Evaporation Rate:	Not Applicable
Auto-ignition Temperature:	Not Applicable
Flammable Properties:	Noncombustible
Vapor Pressure:	Not Applicable
Vapor Density:	No Information Available
Density:	0.88 g/cm ³ (particle)
Specific Gravity:	2.22
Relative Density:	No Information Available

Bulk Density:	66 lb/cu. Ft.		
Molecular Weight:	84.01		
Water Solubility:	9.0% @ 20°C		
Percent Volatile:	No Information Available		
Partition Coefficient:	Not Applicable		
Viscosity:	No Information Available		
Oxidizing Properties:	Not Applicable		
SECTION X – Stability and Reactivity			
Stability: Stable			
Conditions To Avoid: Excessive Heat			
Materials To Avoid: Except Under Controlled Conditions. Acids			
Hazardous Decomposition Products: reacts with acids to release carbon dioxide gas and heat			
Hazardous Polymerization: Hazardous Polymerization does not occur.			
SECTION XI – Toxicological Information			
Acute Effects:			
Remarks: This product is approved for use as a food ingredient and is generally recognized as safe. (GRAS).			
Eye Irritation: Non-irritating (rabbit)			
Skin Irritation: Non-irritating (rabbit). May irritate abraded skin when moisture is present.			
LD50 Oral: 20% slurry, 4,300 mg/kg (rat) 50% slurry; 6,000 mg/kg (rat)			
LD50 Dermal: No information available			
LC50 Inhalation: No information available			
Chronic Toxicity:			
Chronic Toxicity: No known effect			
SECTION XII – Ecological Information			
Ecotoxicity: Not expected to have significant environmental effects			
Chemical Name:	Toxicity To Algae:	Toxicity to fish:	Toxicity to Dolphin and Other Aquatic Invertebrates
Sodium Bicarbonate	650 mg L EC50 120 h (Nitzschia linearis)	LC50 8250-9000 mg/L Lepomis macrochirus 96 h	EC50 2350 mg/L 48 h
Persistence & Degradability: Biodegradability does not pertain to inorganic substances			
Bioaccumulation: Does not bioaccumulate		Mobility: Dissociates into ions	
SECTION XIII – Disposal Considerations			
Waste Disposal Methods: This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become hazardous if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is hazardous waste. Consult the appropriate state, regional or local regulations for additional requirements.			
Contaminated Packaging: Dispose of in accordance with local regulations.			
SECTION XIV – Transport Information			
DOT:	Not regulated		
TDG:	Not regulated		
ICAO/IATA:	Not regulated		
IMDG/IMO:	Not regulated		
SECTION XV – Regulatory Information			
TSCA Inventory (US):	Complies		
DSL (Canada):	Complies		

NDSL (Canada):	Complies
US Federal Regulations: SARA 313. 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.	
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
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.	

SECTION XV – Regulatory Information (continued)

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: Non controlled

SECTION XVI – Other Information

HMIS:

Health – 0 Flammability – 0 Stability – 0 Special Precautions – None

NFPA/HMIS Ratings Legend: Severe = 4 Serious = 3 Moderate = 2 Slight = 1 Minimal = 0

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