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Fritz ProAquatics Sodium Bicarbonate

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SECTION 1: Product Information

Date Revised	11/30/2005			
Brand Name	Fritz ProAquatics			
Product Name	Sodium Bicarbonate			
Chemical Name	Sodium Bicarbonate			
CAS Number	144-55-8			
NFPA (704) Rating	Health: 1	Flammability: 0	Reactivity: 0	Special: 0

SECTION 2: Hazardous Components Information

(None)

SECTION 3: Physical/Chemical Characteristics

Specific Gravity (Water = 1)	2.20
Solubility in Water	9.0% Moderate
Boiling Point	N/A
Melting Point	Decomposes
Freeze Point	30° F
Evaporation Rate	Slower than butyl acetate
Appearance & Odor	White granular solid; No odor
pH	Supple
Vapor Density	N/A

SECTION 4: Fire & Explosion Hazard Data

Flash Point (Method Used)	Non-Combustible
Flammable Limits	Negligible fire hazard
Extinguishing Media	Water, water fog, carbon dioxide (CO ₂), dry chemical
Special Firefighting Procedures	None

Unusual Fire & Explosion Hazards

None. Product is non-combustible. Reacts with acids to release carbon dioxide & heat.

SECTION 5: Reactivity Data

Stability	Stable
Conditions to Avoid	Contact with acids except under controlled condition
Incompatibility (Materials to Avoid)	Acids, reacts with acids to release carbon dioxide gas and heat.
Hazardous Decomposition or Byproducts	None known
Hazardous Polymerization	Will not occur

SECTION 6: Health Hazard Data

Route(s) of Entry	Inhalation: Yes	Skin: Yes	Ingestion: Yes	Eyes: Yes
Health Hazards (Acute & Chronic)	No significant health effects anticipated.			
Carcinogenicity	NTP: N/A	IARC Monographs: N/A	OSHA Regulated: N/A	
LD₅₀	4300 mg/kg 20% slurry, oral (Rat)			
Signs & Symptoms of Exposure	Sodium bicarbonate is a GRAS (generally recognized as safe) food ingredient. No significant toxicity is expected.			
Medical Conditions Aggravated by Exposure	Administration of large doses of sodium bicarbonate to patients with renal insufficiency can produce systemic alkalosis.			
Emergency & First Aid Procedures	Wash skin with soap and water, remove contaminated clothing and wash. Flush eyes with water for 15 minutes. If swallowed, drink water to dilute. Do not induce vomiting. Do not give fluids if victim is unconscious or having convulsions.			

SECTION 7: First Aid Measures

Eye Contact	Flush eyes thoroughly with large amounts of water. If irritation or adverse symptoms develop, seek medical attention.
Skin Contact	Remove contaminated clothing and shoes. Wash affected area with soap or mild detergent. If irritation or adverse symptoms develop, seek medical attention.
Inhalation	Remove from exposure area to fresh air. If breathing discomfort or difficulty occurs, seek medical attention.
Ingestion	Drink water to dilute. Never give anything by mouth to an unconscious person.

SECTION 8: Precautions For Safe Handling & Use

Steps to be taken in case material is released or spilled:

Sweep, scoop or vacuum discharged material. Flush residue with water.

Waste disposal method:

Dispose in accordance with federal, state, and local regulations. Empty containers may be incinerated or discarded.

Precautions to be taken in handling & storage:

Use air conveying/mechanical system for bulk transfer to storage. For manual handling of bulk transfer, use mechanical ventilation to remove airborne dust from railcar/ship/truck. Use local ventilation to control airborne dust in work environment. Store in a cool dry place away from acids.

Other precautions:

Use approved respiration protection when ventilation systems are not available. Select of respirators based on dust cloud generated.

SECTION 9: Control Measures

Respiratory Precautions (Specify Type)	MSHA-NIOSH-approved dust respirator in excessive dust levels	
Ventilation	Local exhaust: In excessive dust	Mechanical: Not required
Protective Gloves	General purpose	
Eye Protection	Chemical goggles	
Other Protective Clothing or Equipment	Full cover clothing and footwear	
Work/Hygenic Practices	Minimize eye/skin contact by using appropriate protective equipment.	

SECTION 10: Transportation (DOT)

Product is not regulated under 49 CFR.

Environmental Evaluation

EPA Superfund (SARA Title III) - Hazard classification & associated information: Not hazardous
EPA CERCLA/Superfund, 40 CFR 302 (Reportable Spill Quantity): Not listed.
EPA SARA Title III, CFR 355 (Extremely Hazardous Substances): Not listed.
EPA SARA Title III, 40 CFR 372 (List of Toxic Chemicals): Not listed.

Chemicals listen on following Chemical Inventories:

TSCA: Not listed.
EPA - RCRA (Hazardous Waste), 40 CFR 261: Not listed.
California Proposition 65: Not listed.

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