

Section 1 - Identification

Product Name: Low N Slow (90014)

Atlantic Solutions, Inc.
 125 North Chatham Pkwy
 Chapel Hill, NC 27517
 919-933-4250

Emergency Phone: 800-535-5053

Product Use: Lowers pH, maintains balanced water and alkalinity in pools and spas

Section 2 - Hazards Identification**GHS Ratings:**

Corrosive to metals	1	Corrosive to metals
Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5

GHS Hazards

H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

GHS Precautions

P234	Keep only in original container
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P264	Wash hands thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P310	Immediately call a POISON CENTER or doctor/physician if you feel unwell after exposure of this product.
P321	Specific treatment (see First Aid below or label)
P363	Wash contaminated clothing before reuse
P301+P330+P331	IF SWALLOWED: Call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P405	Store locked up
P406	Store in a corrosive resistant/... container with a resistant inner liner
P501	Dispose of contents/container in conformance with State, Local, and Federal regulations.

Signal Word: Danger

Section 3 - Composition, Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
Bisulfate of soda	7681-38-1	80.00% - 90.00%

(1) Contains no substances with occupational exposure limit values

Section 4 - First Aid Measures

Inhalation: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If irritation or discomfort persists, seek medical attention.

Eye contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. If redness or irritation persists, get prompt medical attention.

Skin contact: In case of contact, immediately flush skin with plenty of water for at least 20 minutes. If skin irritation occurs, seek medical attention.

Ingestion: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call medical doctor or poison control center immediately.

Most important symptoms/effects, acute and delayed:

Potential acute health effects

Eye Contact: Causes serious eye damage.

Inhalation: Inhalation of dust may irritate nose, throat and/or lungs.

Skin Contact: Prolonged exposure may cause skin irritation.

Ingestion: Small amounts (tablespoonful) swallowed are not likely to cause injury; however, swallowing large amounts may irritate or burn digestive tract.

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following: pain, watering, redness

Inhalation: No known significant effects or critical hazards.

Skin Contact: Adverse symptoms may include the following:
pain or irritation, redness, blistering may occur if repeated exposure

Ingestion: Adverse symptoms may include the following: stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments: No specific treatment.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training.

Section 5 - Fire Fighting Measures

Flash Point: N/A

LEL:

UEL:

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: None known.

Specific hazards arising from the chemical: No specific fire or explosion hazard.

Hazardous thermal decomposition products: Decomposition products may include the following materials:
Sulfur oxides

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Special protective actions for fire-fighters: No special measures are required.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

For non-emergency: Do not breathe dust. Provide adequate ventilation. Wear appropriate respirator when personnel ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up

Small spill : Vacuum or sweep up material and place in a designated, labeled waste container . Dispose of via a licensed waste disposal contractor.

Methods and materials for containment and cleaning up

Large spill: Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7 - Handling & Storage

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Avoid breathing dusts. Wash thoroughly after handling.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage : Material is hygroscopic and will readily absorb moisture. DO NOT store dry product where exposed to moist conditions. Keep container tightly closed.

Section 8 - Exposure Controls/Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Bisulfate of soda 7681-38-1	Not Established	Not Established	Not Established

Appropriate engineering controls: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Individual protection measures

Hygiene measures: Ensure that eyewash stations and safety showers are close to the workstation location. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Eye/face protection: Safety eyewear should be used when there is a likelihood of exposure. Recommended: Safety glasses with side shields.

Skin protection/Hand protection: Use gloves appropriate for work or task being performed. Recommended: Rubber gloves.

Body protection: Cotton-blend coveralls.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: In dusty atmospheres (>10 mg/m³), use a NIOSH-approved dust respirator.

Section 9 - Physical & Chemical Properties

Appearance Crystalline solid spherical shape beads pH <1 Odor Characteristic Freezing Point N/A Flash Point N/A Vapor Pressure N/A Viscosity N/A Upper/lower flammability N/A Auto-ignition temperature N/A	Color Off-white Specific Gravity 1.28 Odor Threshold N/A Boiling Range N/A Evaporation Rate N/A Solubility in Water Complete Flammability N/A Partition coefficient: n- octanol/water N/A Decomposition temperature N/A
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Section 10 - Stability & Reactivity

STABLE

Incompatibilities:

Reactivity

Corrosive action on metals. Reacts with reducing agents. Reacts with alkali (lyes). Reacts with organic substances. Ammonia (NH₃), fluorine, sulfur trioxide (SO₃), phosphorus pentoxide (P₂O₅). Chemical stability No decomposition if used and stored according to specifications. Possibility of hazardous reactions. Reacts with metals forming hydrogen.

Reacts with alkali (lyes). Conditions to avoid To avoid thermal decomposition do not overheat.

Incompatible materials: Alkalis, Metals, Organic materials.

Hazardous Decomposition:

DO NOT store dry product where exposed to moist conditions.

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Hazardous polymerization will not occur.

Section 11 - Toxicological Information

Mixture Toxicity

Oral Toxicity LD50: 3,423mg/kg

Component Toxicity

CAS Number

Description

% Weight

Carcinogen Rating

Section 12 - Ecological Information

Section 13 - Disposal Considerations

Section 14 - Transportation Information

<u>Agency</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
DOT	Compound, Cleaning Solid, (Not Regulated)			

Section 15 - Regulatory Information

- None

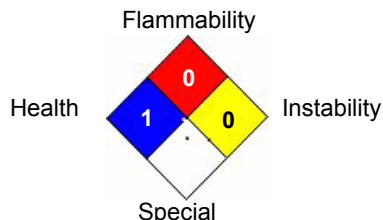
Section 16 - Other Information

Hazardous Material Information System (HMIS)

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	D

HMIS & NFPA Hazard Rating Legend
 * = Chronic Health Hazard
 0 = INSIGNIFICANT
 1 = SLIGHT
 2 = MODERATE
 3 = HIGH

National Fire Protection Association (NFPA)



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Reviewer Revision

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