

Safety Data Sheet

according to WHMIS 2015



Effective date: 16/10/05

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Sodium Bicarbonate, Pool Grade

SECTION 1: Identification

Product name: Sodium Bicarbonate, Pool Grade

Other means of identification: Baking soda, bicarbonate of soda, sodium acid carbonate.

Recommended use and restrictions on use: Raising pool water alkalinity.

Supplier Details:

YXELABS Incorporated
316-111 Research Drive
Saskatoon, Saskatchewan
Canada, S7N 3R2
Tel: 1-844-441-7719
Fax: 1-306-665-2099

Emergency telephone number: Call CANUTEC's 24-hr Number 613-996-6666

SECTION 2: Hazard Identification

Classification of the substance or mixture: Not a hazardous product according to WHMIS 2015.

Signal word: Not applicable.

Hazard statements: Not applicable.

Precautionary statements: Not applicable.

Other hazards which do not result in classification: No information available.

SECTION 3: Composition/Information on Ingredients

Chemical Name	CAS No.	Concentration (% wt/wt)
Sodium bicarbonate	144-55-8	99% min

SECTION 4: First Aid Measures

Description of first aid measures:

After inhalation: Remove victim to fresh air. Seek medical attention if respiratory irritation occurs or if breathing becomes difficult.

After skin contact: Wash affected area with plenty of water for at least 20 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Seek medical attention if irritation occurs or persists.

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After eye contact: Check for and remove any contact lenses. Flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention.

After swallowing: Give large amounts of water. Do not give anything by mouth to an unconscious or convulsing person. Do not induce vomiting unless directed by to do so by medical personnel. Seek immediate medical attention.

Most important symptoms and effects, both acute and delayed: No information available.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically, large doses, particularly in patients with renal insufficiency, may produce systematic alkalosis and/or expansion in the extra-cellular fluid volume with edema.

SECTION 5: Firefighting Measures

Extinguishing media

Suitable extinguishing agents: Product does not burn. This material is used as a dry powder extinguishing medium. Use appropriate extinguishing media for material that is supplying the fuel to the fire. Water spray, dry chemical, carbon dioxide, or foam.

For safety reasons, unsuitable extinguishing agents: No information available

Special hazards arising from the substance or mixture: If extremely large quantities are involved, significant levels of carbon dioxide may be generated.

Advice for firefighters:

Protective equipment: Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

Additional information (precautions): Product is non-flammable.

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: See Section 8.

Methods and material for containment and cleaning up: For dry spills, sweep or shovel and place in containers for disposal in accordance with applicable regulations. Avoid contamination of bodies of water during cleanup.

SECTION 7: Handling and Storage

Precautions for safe handling: Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Use approved respiratory protection when ventilation systems are not available.

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Conditions for safe storage, including any incompatibilities: Store in a cool, dry, well-ventilated place. Keep container tightly closed, and away from incompatible materials (acids). Keep out of direct sunlight. Never store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: Exposure Controls/Personal Protection

Control Parameters: No information available.

Appropriate Engineering controls: Mechanical ventilation (dilution or local exhaust) to prevent release of airborne dust and to supply sufficient replacement air to make up for air removed by exhaust systems. Eyewash should be in close proximity.

Respiratory protection: If airborne concentrations are high, use NIOSH/MSHA approved respirator that has been selected by a technically qualified person for the specific work conditions.

Protection of skin: Chemical resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicated this is necessary. Dry product is generally non-irritating to intact skin. However, this product can be irritating where skin has been damaged and can create skin irritation after long exposures when moisture is present. Under such conditions, long-sleeved clothing is recommended to minimize skin contact.

Eye protection: Chemical goggles or safety glasses with side shields should be worn. Contact lenses should not be worn when working with this product.

General hygienic measures: No information available.

SECTION 9: Physical and Chemical Properties

Appearance:	White granular solid	Vapor pressure:	Not applicable
Odor:	Odourless	Vapor density:	Not applicable
Odor threshold:	Not applicable	Relative density/Specific gravity:	2.16 g/cm ³
pH - value:	8.2 – 8.5 (1% in water)	Solubility:	Partially soluble in water (8.8% at 20 °C)
Melting/Freezing point:	Not applicable	Partition coefficient (n-octanol / water):	No information available
Boiling point/Boiling range:	Decomposes	Auto/Self-ignition temperature:	Not applicable
Flash point:	Not applicable	Decomposition temperature:	No information available
Evaporation rate:	Not Available	Viscosity:	No information available
Flammability:	Not applicable	Molecular formula:	NaHCO ₃
Flammable limit lower: Flammable limit upper:	Not applicable	Molecular weight:	84.01 g/mol
Bulk Density: 961.11 to 1201.38 kg/m ³ (poured)			

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SECTION 10: Stability and Reactivity

Reactivity: No information available.

Chemical stability: Stable in dry air, in moist air forms sodium carbonate, an irritant.

Possible hazardous reactions: Polymerization will not occur.

Conditions to avoid: No information available.

Incompatible materials: Acids, aluminum and phosphoric-pent oxide.

Hazardous decomposition products: When heated to decomposition, sodium bicarbonate produces carbon dioxide.

SECTION 11: Toxicological Information

Toxicity Data	
LD ₅₀ oral rat	4220 mg/kg
LD ₅₀ oral mouse	3360 mg/kg

Irritancy: Non-irritating (mild irritant in severe cases of overexposure)

Skin sensitization: Skin irritation may be aggravated in persons with lesions.

Carcinogenicity: Not listed as a carcinogen by the EPA, OSHA, NTP, or the IARC.

Reproductive toxicity: Not available

Teratogenicity: Not available

Mutagenicity: Not available

Chronic/Acute Effects: Repeated skin exposure may lead to contact dermatitis. Skin irritation may be aggravated in persons with existing skin lesions or when moisture is present. Prolonged contact with dusts or vapours may cause conjunctivitis. Breathing of dust may aggravate acute or chronic asthma and other chronic pulmonary disease.

SECTION 12: Ecological Information

Ecotoxicity: Not available.

SECTION 13: Disposal Considerations

Waste disposal recommendations: Dispose waste and empty packaging in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal

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legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport Information

UN Number: Not regulated for shipping

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable

Environmental hazard: Not applicable

Transport in bulk, if applicable: Not applicable

Special precautions: Secure containers (full and/or empty) with suitable hold down devices during shipment and ensure all caps, valves, or closures are secured in the closed position.

SECTION 15: Regulatory Information

No information available.

SECTION 16: Other Information

YXELABS Incorporated provides the information contained herein in good faith but makes no representation as to its completeness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose.

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Abbreviations and acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service

EPA: Environmental Protection Agency

IARC: International Agency for Research on Cancer

NIOSH: National Institute for Occupational Safety and Health

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

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