

SECTION 1: Identification of the Substance / Mixture and of the Company / Undertaking**1.1. Product Identifier**

Chemical name	: Sodium Bicarbonate
Product codes	: J.T. Baker: 3506, 3508, 3509, 3510, 5597 Mallinckrodt: 7285, 7396, 7397, 7412, 7749, 7903
Molecular Weight	: 84.01
CAS-No.	: 144-55-8
Formula	: NaHCO ₃
Synonyms	: Sodium hydrogen carbonate; sodium acid carbonate; baking soda; bicarbonate of soda

1.2. Details of the Distributor of the Safety Data Sheet

Company Name	: GreenSol Limited
Address	: #39-41 Marryat Street, San Fernando, Trinidad, West Indies
Telephone	: +1(868) 225-4858
Mobile	: +1(868) 720-2517
Email	: sdeokiesingh@greensolltd.com

1.3. Emergency Telephone Number

Emergency Number	: +1(868) 720-2517 (GREENSOL)
	: +1(800) 424-9300 (CHEMTREC)

SECTION 2: Hazard Identification**Emergency Overview**

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

J.T. Baker SAF-T-DATA Ratings (Provided here for your convenience)

Health Rating	: 0 - None
Flammability Rating	: 0 - None
Reactivity Rating	: 1 - Slight
Contact Rating	: 1 - Slight
Lab Protective Equip	: GOGGLES; LAB COAT
Storage Color Code	: Orange (General Storage)

Potential Health Effects

Inhalation	: High concentrations of dust may cause coughing and sneezing.
Ingestion	: Extremely large oral doses may cause gastrointestinal disturbances.
Skin Contact	: No adverse effects expected
Eye Contact	: Contact may cause mild irritation, redness, and pain.

Chronic Exposure : No information found.
Aggravation of Pre-existing Conditions : No information found.

SECTION 3: Composition / Information on Ingredients

Ingredient	CAS No	Hazardous Percent
Sodium Bicarbonate	144-55-8	99-100%

SECTION 4: First Aid Measures

Inhalation : Remove to fresh air. Get medical attention for any breathing difficulty.
Ingestion : Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.
Skin Contact : Not expected to require first aid measures.
Eye Contact : Wash thoroughly with running water. Get medical advice if irritation develops.

SECTION 5: Firefighting measures

Fire : Not considered to be a fire hazard
Explosion : Not considered to be an explosion hazard
Fire Extinguishing Media : Use any means suitable for extinguishing surrounding fire
Special Information : Use protective clothing and breathing equipment appropriate for the surrounding fire.

SECTION 6: Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8.
Spills : Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. Small amounts of residue may be flushed to sewer with plenty of water.

SECTION 7: Handling & Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

SECTION 8: Exposure Controls / Personal Protection

Airborne Exposure limits	: Non established
Ventilation System	: In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.
Personal Respirators (NIOSH Approved)	: For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. WARNING: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
Skin Protection	: Wear protective gloves and clean body-covering clothing.
Eye Protection	: Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION 9: Physical and Chemical Properties

Appearance	: White crystalline powder.
Odour	: Odourless
pH	: 8.3 (0.1 molar @ 25C (77F))
Melting Point	: 60C (140F)
Boiling Point	: Not applicable
Solubility	: 7.8g/100g water @ 18C (64F).
Density	: 2.2
% Volatiles by volume @ 21C (70F)	: 0
Vapor Density (Air=1)	: No information found
Vapor Pressure (mm Hg)	: No information found
Evaporation Rate (BuAc=1)	: No information found

SECTION 10: Stability and Reactivity

Stability	: Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products	: Gaseous carbon dioxide.
Hazardous Polymerization	: Will not occur.
Incompatibilities	: Reacts with acids to form carbon dioxide. Dangerous reaction with monoammonium phosphate or a sodium-potassium alloy.
Conditions to Avoid	: Heat, moisture, incompatibles.

SECTION 11: Toxicological Information

Investigated as a mutagen, reproductive effector. Oral rat LD50: 4220 mg/kg. Irritation data: human, skin, 30mg/3D-I mild, rabbit, eye, 100 mg/30 S, mild.

-----\Cancer Lists\-----

Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Sodium Bicarbonate (144-55-8)	No	No	None

SECTION 12: Ecological Information

Environmental Fate	: No information found.
Environmental Toxicity	: No information found.

SECTION 13: Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14: Transportation Information

Not regulated.

SECTION 15: Regulatory Information

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia
Sodium Bicarbonate (144-55-8)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----				
--Canada--				
Ingredient	Korea	DSL	NDSL	Phil.
Sodium Bicarbonate (144-55-8)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----				
Ingredient	-SARA 302-		-----SARA 313-----	
	RQ	TPQ	List Chemical Catg.	
Sodium Bicarbonate (144-55-8)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----				
Ingredient	-RCRA-		-TSCA	
	CERCLA	261.33	8(d)	
Sodium Bicarbonate (144-55-8)	No	No	No	
Chemical Weapons Convention:	No	TSCA 12(b): No	CDTA: No	
SARA 311/312: Acute:	No	Chronic: No	Fire: No	Pressure: No
Reactivity: No	(Pure / Solid)			

Australian Hazchem Code: No information found.

Poison Schedule: No information found.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

SECTION 16: Other Information

NFPA	:	Health: 1 Flammability: 0 Reactivity: 0
Label Hazard Warning	:	As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.
Label Precautions	:	None
Label First Aid	:	Not applicable
Product Use	:	Laboratory Reagent
Revision Information	:	New 16 section MSDS format, all sections have been revised.

Notice to Reader:

This SDS provides the information contained in this document in good faith but makes no representation as to its accuracy. This document is intended solely to guide the safe handling of the material by a properly trained individual. The final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be handled with caution. Although some hazards are described, it cannot be guaranteed that these are the only hazards that exist.

Version	Date of Change	Change Description	Responsible Person
2	11-11-2024	Updated to supplier SDS Rev. 2	Laboratory Coordinator