

Material Safety Data Sheet

Sodium Bicarbonate Food Grade

1. Product Identification

Synonyms: Sodium bicarbonate food grade

CAS No.: 144-55-8

Molecular Weight: 84.01 Chemical

Formula: NaHCO₃ Product Codes:

J.T. Baker: 3506, 3508, 3509, 3510, 5597

Mallinckrodt: 7285, 7396, 7397, 7412, 7749, 7903

2. Composition/Information on Ingredients

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

3. Hazards 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(tm) 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.

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.

5. Fire Fighting 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.

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.

7. Handling and 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.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: None 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.

9. Physical and Chemical Properties

Appearance:

White crystalline powder. Odor:

Odorless. Solubility:

7.8g/100g water @ 18C (64F). Density:

2.2

pH:

8.3 (0.1 molar @ 25C (77F))

% Volatiles by volume @ 21C (70F): 0

Boiling Point: Not

applicable. Melting

Point: 60C (140F)

Vapor Density (Air=1): No

information found. Vapor

Pressure (mm Hg): No

information found.

Evaporation Rate (BuAc=1): No

information found.

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.

11. Toxicological Information

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

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

---NTP Carcinogen---

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

12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: No information found.

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.

14. Transport Information

Not regulated.

15. Regulatory Information

-----\Chemical Inventory Status - Part1\-----					Ingredient	TSCA
EC		Japan	Australia			

Sodium Bicarbonate						
(144-55-8)	Yes	Yes	Yes	Yes		

-----\Chemical Inventory Status - Part2\-----					
Ingredient			--Canada--		

		Korea	DSL	NDSL	Phil.

Sodium Bicarbonate					
(144-55-8)	Yes	Yes	No	Yes	

-----\Federal, State & International Regulations - Part1\-----						
Ingredient		-SARA 302-		-----SARA 313-----		
-----		RQ	TPQ	List	Chemical	Catg.

Sodium Bicarbonate(144-55-8)			No	No	No	No

-----\Federal, State & International Regulations - Part2\-----				
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.

16. Other Information

NFPA Ratings: 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.
