

1. IDENTIFICATION

Commercial Name: Sodium Bicarbonate
Other Names: Baking soda; Bicarbonate of soda; Sodium hydrogen carbonate
Product Use: Food/feed applications; Industrial use.

Contact Information:

Organisation	Location	Telephone	Ask For
Adelaide Moulding and Candle Supplies	7 Woodlands Terrace Edwardstown South Australia 5039	08 8294 0451	SDS Officer
Poisons Information Centre		13 11 26	

2. HAZARD IDENTIFICATION

Poison Schedule: Not scheduled

Globally Harmonised System:

Hazard Classification: NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS).

Signal Words: None

National Transport

Commission Australia: Australia Code for the transport of dangerous goods by Road & Rail (ADG Code).

Dangerous Goods

Classification: NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Safe Work Australia: National Guide for Classifying Hazardous Chemicals under the Model WHS Regulations

Hazard Classification: NOT hazardous according to the criteria of Safe Work Australia under Model WHS Regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

CAS Number	Chemical Entity	Formula	Proportion
144-55-8	Sodium bicarbonate	NaHCO ₃	<=100 %

4. FIRST AID MEASURES

Swallowed: IF SWALLOWED: Rinse mouth, then drink plenty of water. Do not induce vomiting. Get medical advice/attention if a large amount is swallowed or if you feel unwell. Never give anything by mouth to an unconscious person.

Skin: IF ON SKIN: Remove contaminated clothing and shoes. Flush skin with running water for several minutes. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse.

Eye: IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for 10 – 15 minutes. If eye irritation persists, get medical advice/attention.

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention. Apply resuscitation if victim is not breathing; Administer oxygen if breathing is difficult.

Advice to Doctor: Treat symptomatically. When symptoms persist or in all cases of doubt, seek medical advice.

Medical Conditions

Aggravated by Exposure: No information available.

5. FIRE FIGHTING MEASURES

General Measures: If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

Flammability Conditions: Non-combustible.
*This product will not burn, and can be used as a dry powder extinguishing medium.

Extinguishing Media: If material is involved in a fire, use extinguishing media that are appropriate to local circumstances and the surrounding environment.

Fire and Explosion Hazard: Decomposes on heating, emitting toxic fumes.

Hazardous Products of Combustion: Fire or heat may produce irritating and/or toxic fumes, including oxides of Carbon, oxides of Sodium.

Special Fire Fighting Instructions: Contain runoff from fire control or dilution water - Runoff may pollute waterways.

Personal Protective Equipment: Wear self-contained breathing apparatus (SCBA) in combination with normal firefighting clothing (full fire kit).

Flash Point: No Data Available

Lower Explosion: No Data Available

Upper Explosion: No Data Available

Auto Ignition Temperature: No Data Available

Hazchem Code: No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure: Ensure adequate ventilation. Do not touch or walk-through spilled material - slipping hazard. Avoid dust formation. Avoid breathing dust and contact with eyes, skin, and clothing.

Clean Up Procedures: Pick up and transfer to properly labelled containers for disposal (see SECTION 13).
*Do not flush into surface water or sanitary sewer system. Prevent any mixture with an acid into the sewer/drain (gas formation).

Containment: Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Cover powder spill with plastic sheet or tarp to minimise spreading.

Decontamination: Ventilate area.

Environmental Precautionary Measures: Prevent entry into drains and waterways.

Evacuation Criteria: Spill or leak area should be isolated immediately. Keep unauthorised personnel away.

Personal Precautionary Measures: Use personal protective equipment as required (see SECTION 8).

7. HANDLING AND STORAGE

Handling: Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid dust formation. Avoid breathing dust and contact with eyes, skin, and clothing. Do not ingest. Use personal protective equipment as required (see SECTION 8). To avoid thermal decomposition, do not overheat.

Storage: Store in a cool, dry, and well-ventilated place, out of direct sunlight. Keep containers tightly closed when not in use. Protect from moisture. Keep away from incompatible materials (see SECTION 10).

Other Information: Keep in the original, properly labelled container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

General: No specific exposure standards are available for this product. For dusts from solid substances without specific occupational exposure standards:

- Safe Work Australia Exposure Standard (Nuisance dusts): 8 hr TWA = 10 mg/m³ (measured as inhalable dust).
- New Zealand WES (Particulates not otherwise classified): TWA = 10 mg/m³; TWA = 3 mg/m³ (respirable dust).

Exposure Limits: No Data Available

Biological Limits: No information available.

Engineering Measures: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Protection Equipment

Respiratory protection: Respiratory protection: Wear respiratory protection in case of inadequate ventilation or if an inhalation risk exists.

Recommended: Dust mask/particulate filter respirator (refer to AS/NZS 1715 & 1716).

Eye/face protection: Wear appropriate eye protection to avoid eye contact.

Recommended: Safety glasses or goggles.

Hand protection: Handle with gloves.

Recommended: Impervious gloves.

Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact.

Recommended: Dust impervious protective suit.

Special Hazards Precautions: No information available.

Work Hygienic Practices: Do not eat, drink or smoke when using this product. Wash thoroughly after handling, before breaks and at the end of workday. Take off contaminated clothing and wash it before reuse. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Appearance: Crystalline powder or granules

Odour: Odourless

Colour: White

pH: 8.0 - 8.5 (1% solution)

Vapour Pressure: No Data Available

Relative Vapour Density: No Data Available

Boiling Point: Decomposes

Melting Point: Decomposes

Freezing Point: No Data Available

Solubility: Soluble in water - Insoluble in alcohol

Specific Gravity: 2.16 (H₂O = 1)

Flash Point: No Data Available

Auto Ignition Temp: No Data Available

Evaporation Rate: No Data Available

Bulk Density: 0.5 - 1.3 kg/dm³

Corrosion Rate: No Data Available

Decomposition Temperature: >50 °C

Density: No Data Available

Specific Heat: No Data Available

Molecular Weight: 84.01 g/mol

Net Propellant Weight: No Data Available

Octanol Water Coefficient: No Data Available

Adelaide Moulding and Candle Supplies

7 Woodlands Terrace

Edwardstown SA 5039

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Phone: +61 8 8294 0451

Email: admin@amcsupplies.com.au

Web: www.amcsupplies.com.au

ABN: 85 765 232 986

Particle Size:	No Data Available
Partition Coefficient:	No Data Available
Saturated Vapour Concentration:	No Data Available
Vapour Temperature:	No Data Available
Viscosity:	No Data Available
Volatile Percent:	No Data Available
VOC Volume:	No Data Available
Additional Characteristics:	No information available.
Potential for Dust Explosion:	No information available.
Fast or Intensely Burning Characteristics:	No information available.
Flame Propagation or Burning Rate of Solid Materials:	No information available.
Non-Flammables That Could Contribute Unusual Hazards to a Fire:	No information available.
Properties That May Initiate or Contribute to Fire Intensity:	Non-combustible. *This product will not burn, and can be used as a dry powder extinguishing medium.
Reactions That Release Gases or Vapours:	Decomposes on heating, emitting toxic fumes, including oxides of Carbon, oxides of Sodium.
Release of Invisible Flammable Vapours and Gases:	No information available.

10. STABILITY AND REACTIVITY

General Information:	Hazardous reactions will not occur under normal circumstances.
Chemical Stability:	Stable under recommended storage conditions.
Conditions to Avoid:	Avoid dust formation. Protect from moisture. To avoid thermal decomposition, do not overheat.
Materials to Avoid:	Incompatible/reactive with acids, Aluminium (tarnishes).
Hazardous Decomposition Products:	Decomposes on heating, emitting toxic fumes, including oxides of Carbon, oxides of Sodium. *In moist air, forms sodium carbonate, which is an irritant.
Hazardous Polymerisation:	Hazardous polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION

General Information:	Information on possible routes of exposure: Ingestion: May cause nausea, vomiting and abdominal pain. Large doses may produce symptomatic alkalosis and expansion in extracellular fluid volume with edema. Eye contact: Contact may cause irritation due to mechanical abrasion. Skin contact: Large amounts of dust may cause mechanical irritation or drying of the skin. Inhalation: Prolonged inhalation of dust may cause respiratory irritation. Chronic effects: Sodium Bicarbonate is not listed as a carcinogen by the Environmental Protection Agency (EPA), the State of California, the National Toxicology Program, or the International Agency for Research on Cancer.
Acute:	
Ingestion:	Acute toxicity (Oral): - LD50, Rat: 4,220 mg/kg
Carcinogen Category:	None

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Aquatic toxicity: - Acute LC50, Fish (<i>Oncorhynchus mykiss</i>): 7,100 mg/l (96 h) [flow-through test]. - EC50, Crustacea (<i>Daphnia magna</i>): 4,100 mg/l (48 h) [flow-through test]. - NOEC, Crustacea (<i>Daphnia magna</i>): >576 mg/l (21 d) [semi-static test; OECD Test Guideline 211].
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*Not harmful to aquatic life (LC/LL50, EC/EL50 >100 mg/L)

Persistence/Degradability:	Product dissociates rapidly to corresponding ions on contact with water.
Mobility:	High mobility (water, soil/sediments).
Environmental Fate:	Prevent entry into drains and water ways.
Bioaccumulation Potential:	Does not bioaccumulate.
Environmental Impact:	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of via a licensed disposal company and in accordance with local/regional/national regulations.
Special Precautions for Land Fill:	No information available.

14. TRANSPORT INFORMATION

Land Transport (Australia) ADG Code

Proper Shipping Name:	Sodium bicarbonate
Class:	No Data Available
Subsidiary Risk(s):	No Data Available
UN Number:	No Data Available
Hazchem:	No Data Available
Pack Group:	No Data Available
Special Provision:	No Data Available
Comments:	NON-DANGEROUS GOODS: Not regulated for LAND transport.

Sea Transport IMDG Code

Proper Shipping Name:	Sodium bicarbonate
Class:	No Data Available
Subsidiary Risk(s):	No Data Available
UN Number:	No Data Available
Hazchem:	No Data Available
Pack Group:	No Data Available
Special Provision:	No Data Available
EMS:	No Data Available
Marine Pollutant:	No
Comments:	NON-DANGEROUS GOODS: Not regulated for SEA transport.

Air Transport IATA DGR

Proper Shipping Name:	Sodium bicarbonate
Class:	No Data Available
Subsidiary Risk(s):	No Data Available
UN Number:	No Data Available
Hazchem:	No Data Available
Pack Group:	No Data Available
Special Provision:	No Data Available
Comments:	NON-DANGEROUS GOODS: Not regulated for AIR transport.

National Transport Commission (Australia)

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification: NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

15. REGULATORY INFORMATION

General Information:	No Data Available
Poisons Schedule (Aust):	Not Scheduled
Inventory Status:	Australia (AICS)

National/Regional Inventories

Australia (AIC):	Listed
Canada (DSL):	Listed
Canada (NDSL):	Not Determined
China (IECSC):	Listed
Europe (EINECS):	205-633-8
Europe (REACH):	Not Determined
Japan (ENCS/METI):	Not Determined
Korea (KECI):	Listed
Malaysia (EHS Register):	Not Determined
New Zealand (NZIoC):	Listed
Philippines (PICCS):	Listed
Switzerland (Giftliste 1):	Not Determined
Switzerland (Inventory of Notified Substances):	Not Determined
Taiwan (NCSR):	Listed
USA (TSCA):	Listed

16. OTHER INFORMATION

Related Product Codes:	SOBICA0300, SOBICA0400, SOBICA0500, SOBICA0600, SOBICA0700, SOBICA0800, SOBICA0900, SOBICA1000, SOBICA1001, SOBICA1002, SOBICA1003, SOBICA1004, SOBICA1005, SOBICA1006, SOBICA1007, SOBICA1008, SOBICA1009, SOBICA1010, SOBICA1011, SOBICA1012, SOBICA1013, SOBICA1014, SOBICA1015, SOBICA1016, SOBICA1100, SOBICA1200, SOBICA1300, SOBICA1400, SOBICA1500, SOBICA1501, SOBICA1502, SOBICA1503, SOBICA1504, SOBICA1550, SOBICA1600, SOBICA1700, SOBICA1717, SOBICA1800, SOBICA1801, SOBICA1802, SOBICA1803, SOBICA1804, SOBICA1805, SOBICA1806, SOBICA1807, SOBICA1808, SOBICA1809, SOBICA1810, SOBICA1811, SOBICA1812, SOBICA1813, SOBICA1814, SOBICA1900, SOBICA1901, SOBICA2000, SOBICA2001, SOBICA2002, SOBICA2003, SOBICA2004, SOBICA2050, SOBICA2051, SOBICA2054, SOBICA2055, SOBICA2056, SOBICA2057, SOBICA2058, SOBICA2060, SOBICA2061, SOBICA2062, SOBICA2065, SOBICA2066, SOBICA2067, SOBICA2070, SOBICA2080, SOBICA2100, SOBICA2101, SOBICA2200, SOBICA2300, SOBICA2400, SOBICA2500, SOBICA2600, SOBICA2650, SOBICA2700, SOBICA2800, SOBICA2900, SOBICA3000, SOBICA3001, SOBICA3002, SOBICA3030, SOBICA3040, SOBICA3045, SOBICA3050, SOBICA3070, SOBICA3071, SOBICA3075, SOBICA3076, SOBICA3080, SOBICA3100, SOBICA3101, SOBICA3200, SOBICA3201, SOBICA3300, SOBICA3400, SOBICA3401, SOBICA3450, SOBICA3500, SOBICA3501, SOBICA3502, SOBICA3510, SOBICA3513, SOBICA3520, SOBICA3530, SOBICA3535, SOBICA3550, SOBICA3555, SOBICA3600, SOBICA3700, SOBICA3800, SOBICA3900, SOBICA4000, SOBICA4001, SOBICA4002, SOBICA4003, SOBICA4004, SOBICA4005, SOBICA4006, SOBICA4010, SOBICA4100, SOBICA4200, SOBICA4300, SOBICA4301, SOBICA4400, SOBICA4401, SOBICA4500, SOBICA4501, SOBICA4600, SOBICA4601, SOBICA4602, SOBICA4603, SOBICA4700, SOBICA4800, SOBICA4850, SOBICA4900, SOBICA5000, SOBICA5100, SOBICA5200, SOBICA5400, SOBICA5410, SOBICA5420, SOBICA5450, SOBICA5555, SOBICA5600, SOBICA5700, SOBICA5800, SOBICA5801, SOBICA5900, SOBICA5901, SOBICA6000, SOBICA6001, SOBICA6002, SOBICA6003, SOBICA6100, SOBICA6101, SOBICA6200, SOBICA6201, SOBICA6202, SOBICA6203, SOBICA6204, SOBICA6205, SOBICA6206, SOBICA6207, SOBICA6208, SOBICA6209, SOBICA6210, SOBICA6211, SOBICA6212, SOBICA6213, SOBICA6214, SOBICA6215, SOBICA6216, SOBICA6217, SOBICA6218, SOBICA6219, SOBICA6220, SOBICA6221, SOBICA6222, SOBICA6223, SOBICA6224, SOBICA6225, SOBICA6226, SOBICA6227, SOBICA6228, SOBICA6229, SOBICA6230, SOBICA6231, SOBICA6232, SOBICA6233, SOBICA6234, SOBICA6235, SOBICA6236, SOBICA6237, SOBICA6300, SOBICA6400, SOBICA6430, SOBICA6500, SOBICA6600, SOBICA6700, SOBICA6701, SOBICA6800, SOBICA6900, SOBICA6901, SOBICA6950, SOBICA7000, SOBICA7100, SOBICA7200, SOBICA7300, SOBICA7410, SOBICA7415, SOBICA7420, SOBICA7421, SOBICA7422, SOBICA7423, SOBICA7424, SOBICA7425, SOBICA7426, SOBICA7430, SOBICA7431, SOBICA7435, SOBICA7436, SOBICA7438, SOBICA7439, SOBICA7440, SOBICA7441, SOBICA7445, SOBICA7450, SOBICA7451, SOBICA7452, SOBICA7453, SOBICA7454, SOBICA7455, SOBICA7460, SOBICA7465, SOBICA7470, SOBICA7480, SOBICA7481,
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Revision: 5

Revision Date: 11 Aug 2022

Key	Legend
<	Less Than
>	Greater Than
AICS	Australian Inventory of Chemical Substances
Atm	Atmosphere
CAS	Chemical Abstracts Service (Registry Number)
cm ²	Square Centimetres
CO ₂	Carbon Dioxide
COD	Chemical Oxygen Demand
deg C (°C)	Degrees Celcius
EPA (New Zealand)	Environmental Protection Authority of New Zealand
deg F (°F)	Degrees Farenheit
g	Grams
g/cm ³	Grams per Cubic Centimetre
g/l	Grams per Litre
HSNO	Hazardous Substance and New Organism
IDLH	Immediately Dangerous to Life and Health
Immiscible	Liquids are insoluble in each other
inHg	Inch of mercury
inH ₂ O	Inch of Water
K	Kelvin
kg	Kilogram
kg/m ³	Kilograms per Cubic Metre
lb	Pound
LC50	LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.
LD50	LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.
ltr or L	Litre
m ³	Cubic Metre
mbar	Millibar
mg/24H	Milligrams per 24 Hours
mg/kg	Milligrams per Kilogram
Mg/m ³	Milligrams per Cubic Metre
Misc or Miscible	Liquids form one homogeneous liquid phase regardless of the amount of either component present.
mm	Millimetre
mmH ₂ O	Millimetres of Water
mPa.s	Millipascals per Second
N/A	Not Applicable
NIOSH	National Institute for Occupational Safety and Health
NOHSC	National Occupational Health and Safety Commission
OECD	Organisation for Economic Co-operation and Development
Oz	Ounce
PEL	Permissible Exposure Limit
Pa	Pascal
ppb	Parts per Billion

ppm	Parts per Million
ppm/2h	Parts per Million per 2 Hours
ppm/6h	Parts per Million per 6 Hours
psi	Pounds per Square Inch
R	Rankine
RCP	Reciprocal Calculation Procedure
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
tne	Tonne
TWA	Time Weighted Average
Ug/24H	Micrograms per 24 Hours
UN	United Nations
wt	Weight

Further Information

The information in this safety data sheet is to the best of our knowledge true and accurate at the date of publication. All data, instructions, and recommendations and/or suggestion are made without guarantee.

In all cases, it is the responsibility of the users to determine the applicability of such information and recommendations, and the suitability of any products for their own particular purpose. Accordingly, Adelaide Moulding and Candle Supplies assumes no liability whatsoever for the use of or reliance upon this information or for any damage resulting from handling or from contact with the product.

The Material Safety Data Sheet is intended to provide information for a health and safety assessment of the material. This document is not intended for quality assurance purposes.