



**Miakara**

**Makers**

**Safety Data Sheet**

**Sodium bicarbonate**

**Revision 4, 14/02/2023**

| 1. IDENTIFICATION |
| --- |

Product Name

Other Names

Uses

Chemical Family Chemical Formula Chemical Name Product Description

Sodium bicarbonate

Baking soda; Bicarbonate of soda; Sodium hydrogen carbonate Food/feed applications; Industrial use.

No Data Available

NaHCO3

Carbonic acid, monosodium salt

Mono-constituent substance (inorganic).

Contact Details of the Supplier of this Safety Data Sheet

Organisation Telephone Location

| Miakara Makers |
| --- |
| 3/27 Graystone Ct, Epping Vic 3076 |
| 0488113230 |

##

Emergency Contact Details

For emergencies only; DO NOT contact these companies for general product advice.

Organisation

Chemcall

Chemcall

Chemcall

National Poisons Centre

Location Telephone

Australia 1800-127406 +64-4-9179888

Malaysia +64-4-9179888

New Zealand 0800-243622 +64-4-9179888

New Zealand 0800-764766

CHEMTREC USA & Canada 1-800-424-9300 CN723420 +1-703-527-3887

| 2. HAZARD IDENTIFICATION |
| --- |

Poisons Schedule (Aust) Not Scheduled

Globally Harmonised System

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

Signal Word None

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)

| 3. COMPOSITION/INFORMATION ON INGREDIENTS |
| --- |

Ingredients

| Chemical Entity  | Formula  | CAS Number  | Proportion |
| --- | --- | --- | --- |
| Sodium bicarbonate  | NaHCO3  | 144-55-8  | <=100 %  |

| 4. FIRST AID MEASURES |
| --- |

Description of necessary measures according to routes of exposure

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.

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.

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.

Inhaled 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.

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; Material does not burn.

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

Special Fire Fighting Instructions

Fire or heat may produce irritating and/or toxic fumes, including oxides of Carbon, oxides of Sodium. 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 Limit No Data Available

No Data Available

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No Data Available

Upper Explosion Limit

Auto Ignition Temperature No Data Available

Hazchem Code No Data Available

| 6. ACCIDENTAL RELEASE MEASURES |
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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 Collect material (sweep up, shovel) and place it in suitable, properly labelled containers for recovery or disposal (see SECTION 13).

Containment Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Decontamination No information available.

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 |
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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).

Container Keep in the original, properly labelled container.

| 8. EXPOSURE CONTROLS / PERSONAL PROTECTION |
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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: 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.

- Hand protection: Handle with gloves. Recommended: Impervious gloves.

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

Overalls, safety shoes.

Special Hazards Precaustions No information available.

Work Hygienic Practices Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off contaminated clothing and wash before reuse.

| 9. PHYSICAL AND CHEMICAL PROPERTIES |
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Physical State Solid

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Appearance Crystalline powder or granules Odour Odourless

Colour White

pH 8.0 - 9.0 (saturated solution) Vapour Pressure No Data Available Relative Vapour Density No Data Available Boiling Point No Data Available Melting Point 300 °C

Freezing Point No Data Available Solubility Soluble in water Specific Gravity 2.1 - 2.2

Flash Point No Data Available Auto Ignition Temp No Data Available Evaporation Rate No Data Available Bulk Density No Data Available Corrosion Rate No Data Available Decomposition Temperature >50 °C

Density 2.1 - 2.2 g/cm3 Specific Heat No Data Available Molecular Weight No Data Available Net Propellant Weight No Data Available Octanol Water Coefficient No Data Available 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

Flame Propagation or Burning Rate of Solid Materials

Non-Flammables That Could Contribute Unusual Hazards to a Fire

Properties That May Initiate or Contribute to Fire Intensity

Reactions That Release Gases or Vapours

Release of Invisible Flammable Vapours and Gases

No information available.

No information available.

No information available.

Non-combustible; Material does not burn.

Decomposes on heating, emitting toxic fumes, including oxides of Carbon, oxides of Sodium. No information available.

| 10. STABILITY AND REACTIVITY |
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General Information No information available.

Chemical Stability Stable under recommended storage conditions.

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Conditions to Avoid Avoid dust formation. Protect from moisture. To avoid thermal decomposition, do not overheat. Materials to Avoid Incompatible/reactive with acids, strong oxidising agents.

Hazardous Decomposition Products

Decomposes on heating, emitting toxic fumes, including oxides of Carbon, oxides of Sodium.

Hazardous Polymerisation No information available.

| 11. TOXICOLOGICAL INFORMATION |
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General Information Information on possible routes of exposure:

- Ingestion: No adverse effects expected; Swallowing large amounts may cause gastrointestinal disturbance, nausea

and vomiting.

- Eye contact: Causes mild eye irritation.

- Skin contact: Causes mild skin irritation.

- Inhalation: Exposure to dust may cause respiratory irritation.

Chronic effects: No information available.

Acute

Ingestion Acute toxicity (Oral):

- LD50, Rat: 4,220 mg/kg

Carcinogen Category None

| 12. ECOLOGICAL INFORMATION |
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Ecotoxicity Aquatic toxicity:

- Acute LC50, Fish (Rainbow trout (Oncorhynchus mykiss)): 7,700 mg/l (96 h) [Flow-through].

- Acute NOEC, Fish (Rainbow trout (Oncorhynchus mykiss)): 2,300 mg/l (96 h) [Flow-through].

- Acute LC50, Fish (Bluegill sunfish (Lepomis macrochirus)): 7,100 mg/l (96 h) [Flow-through].

- Acute NOEC, Fish (Bluegill sunfish (Lepomis macrochirus)): 5,200 mg/l (96 h) [Flow-through].

- Acute LC50, Invertebrates (Daphnia magna): 4,100 mg/l (48 h) [Flow-through].

- Acute NOEC, Invertebrates (Daphnia magna): 3,100 mg/l (48 h) [Flow-through].

- Chronic NOEC, Invertebrates (Daphnia magna): >576 mg/l (21 d).

Persistence/Degradability

Biodegradation:

- The methods for determining biological degradability are not applicable to inorganic substances. Abiotic degradation (water):

- Hydrolyses: acid/base equilibrium as a function of pH; Degradation products: carbonic acid/bicarbonate/carbonate.

Mobility High mobility (water, soil/sediments).

Environmental Fate Prevent entry into drains and waterways.

Bioaccumulation Potential Does not bioaccumulate.

Environmental Impact No Data Available

| 13. DISPOSAL CONSIDERATIONS |
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General Information 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 |
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Land Transport (Australia)

ADG Code

Proper Shipping Name Sodium bicarbonate

Class No Data Available

Subsidiary Risk(s) No Data Available

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. Land Transport (Fiji)

Proper Shipping Name Sodium bicarbonate

Class No Data Available

Subsidiary Risk(s) No Data Available

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.

Land Transport (Malaysia)

ADR Code

Proper Shipping Name Sodium bicarbonate

Class No Data Available

Subsidiary Risk(s) No Data Available

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.

Land Transport (New Zealand)

NZS5433

Proper Shipping Name Sodium bicarbonate

Class No Data Available

Subsidiary Risk(s) No Data Available

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.

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Land Transport (United States of America)

US DOT

Proper Shipping Name Sodium bicarbonate

Class No Data Available

Subsidiary Risk(s) No Data Available

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 |
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General Information No Data Available

Poisons Schedule (Aust) Not Scheduled

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Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code Not Hazardous

National/Regional Inventories

Australia (AIIC) 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 |
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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,

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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,

Revision

Revision Date Key/Legend

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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, SOBICA7490, SOBICA7491, SOBICA7492, SOBICA7500, SOBICA7501, SOBICA7530, SOBICA7531, SOBICA7600, SOBICA7700, SOBICA7701, SOBICA7702, SOBICA7703, SOBICA7704, SOBICA7777, SOBICA7788, SOBICA7800, SOBICA7900, SOBICA8000, SOBICA8100, SOBICA8150, SOBICA8200, SOBICA8300, SOBICA8430, SOBICA8500, SOBICA8777, SOBICA8788, SOBICA8800, SOBICA8900, SOBICA9000, SOBICA9001, SOBICA9002, SOBICA9003, SOBICA9400, SOBICA9410, SOBICA9415, SOBICA9430, SOBICA9431, SOBICA9450, SOBICA9500, SOBICA9501, SOBICA9600, SOBICA9700, SOBICA9800, SOBICR0210, SOBICR0211, SOBICR0410, SOBICR0411, SOBICR0810, SOBICR0811, SOBICR1000, SOBICR1010, SOBICR2000, SOBICR3001, SOBICR3002, SOBICR3004, SOBICR3010, SOBICR3025, SOBICR3050, SOBICR3510

4

14/02/2023

< Less Than

> Greater Than

AICS Australian Inventory of Chemical Substances

atm Atmosphere

CAS Chemical Abstracts Service (Registry Number)

cm² Square Centimetres

CO2 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/cm³ 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 insoluable in each other.

inHg Inch of Mercury

inH2O Inch of Water

K Kelvin

kg Kilogram

kg/m³ 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

m³ Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m³ Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH2O Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health

NOHSC National Occupational Heath 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

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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