

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: Bicarbonate Soda

Recommended Use: Detergent, Chemical industry, Glass industry, Foaming agents, Water treatment, Environmental protection

Supplier: Midland Chemicals
ABN: 91 622 018 986

Street Address: 18 Elliott Street
Midvale
Western Australia

Telephone Number: +61 08 9274 1992

Facsimile: +61 08 9250 1710

Emergency Telephone: **1 800 033 111 (ALL HOURS)**

2. HAZARDS IDENTIFICATION

Based on available information, not classified as hazardous according to criteria of ASCC; NON-HAZARDOUS SUBSTANCE.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Risk Phrases:

Safety Phrases:

Poisons Schedule: N/A

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Risk Phrases
Sodium Bicarbonate	144-55-8	>95%	

MATERIAL SAFETY DATA SHEET

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor at once.

Inhalation:

Remove victim from exposure to fresh air. If not breathing, apply artificial respiration. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Skin Contact:

Remove contaminated clothing. Wash affected area with soap and plenty of water. If irritation persists, seek medical attention.

Eye Contact:

Immediately flush eyes with plenty of water holding eyelids open, also under the eyelids. If irritation persists, seek medical attention

Ingestion:

Rinse mouth with water. Give water to drink. Do NOT induce vomiting. If symptoms persist, seek medical attention

Medical attention and special treatment:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazards from combustion products:

Non-combustible material.

Precautions for fire fighters and special protective equipment:

Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves). Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk. Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.

Suitable Extinguishing Media:

In case of fire, use appropriate extinguishing media most suitable for surrounding fire conditions.

MATERIAL SAFETY DATA SHEET

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:

Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services. Avoid accidents, clean up immediately. Slippery when spilled. Eliminate all sources of ignition. Increase ventilation. Avoid generating dust. Stop leak if safe to do so. Isolate the danger area. Use clean, non-sparking tools and equipment. Avoid dust formation.

Methods and materials for containment and clean up:

Personnel involved in the clean up should wear full protective clothing as listed in section 8. Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Sweep up to prevent slipping hazard. Transfer to a suitable, labelled waste container and dispose of promptly. Stop leak if safe to do so. Isolate the danger area. Do NOT let product reach drains or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management. Prevent any mixture with an acid into the sewer/drain (gas formations).

7. HANDLING AND STORAGE

This material must be stored, maintained and used in accordance with the relevant regulations.

Conditions for safe storage:

Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Keep away from Incompatible products. Keep at temperature not exceeding: 50 °C (122 °F). This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.

Precautions for safe handling:

Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Take precautionary measures against static discharges by bonding and grounding equipment. Avoid contact with eyes, skin and clothing. Do not inhale product dust/fumes

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: No value assigned for this specific material by the National Occupational Health and Safety Commission.

Engineering controls:

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 Protective Equipment:

RESPIRATOR: Respiratory protection that conforms to international/ national standards (AS1715/1716).

EYES: Safety goggles (AS1336/1337).

HANDS: Wear suitable gloves (AS2161).

CLOTHING: Long-sleeved protective clothing and safety footwear (AS3765/2210).

9. PHYSICAL AND CHEMICAL PROPERTIES

MATERIAL SAFETY DATA SHEET

Physical state: Solid Crystalline Powder
Colour: White
Solubility: 69g/L
Specific Gravity: N/A
Relative Vapour Density (air=1): Not available
Vapour Pressure (20 °C): Not available
Flash Point (°C): Not applicable
Flammability Limits (%): Not applicable
Auto Ignition Temperature (°C): Not applicable
Boiling Point/Range (°C): ca. 100°C
pH: 8.4 @ 1% solution

10. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions. Keep at temperature not exceeding 50 °C

Conditions to avoid: Exposure to moisture, do not overheat to avoid thermal decomposition.

Incompatible materials: Incompatible with acids.

Hazardous decomposition products: None known

Hazardous reactions: None known.

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Eye contact: Dust contact with the eyes can lead to mechanical irritation.

Skin contact: Repeated or prolonged exposure: Contact with dust can cause mechanical irritation or drying of the skin.

Inhalation: In case of higher concentration: slight irritation.

Long Term Effects: No information available for the product.

Toxicological Data: Acute Oral toxicity LD50 Rat : > 4000mg/Kg.
Acute Inhalation toxicity LC50 Rat : > 4.74mg/L
No skin Irritation in Rabbits
No eye irritation in Rabbits
Genetic Toxicity In Vitro: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Oral route (gavage), 10 days, rabbit, 330mg/Kg, Did not show teratogenic effects in animal experiments.
testing on rats did not show any carcinogenic effects

12. ECOLOGICAL INFORMATION

Product Name: Bicarbonate Soda

Issued: 19/8/15

MATERIAL SAFETY DATA SHEET

Ecotoxicity	Acute Toxicity Fishes, Oncorhynchus mykiss, LC50: 7700mg/L/96h Fishes, Oncorhynchus mykiss, NOEC: 2300mg/L/96h Fishes, Lepomis macrochirus, LC50: 7100mg/L/96h Fishes, Lepomis macrochirus, NOEC: 5200mg/L/96h Crustaceans, Daphnia magna, EC50: 4100mg/L/48h Crustaceans, Daphnia magna, NOEC: 3100mg/L/48h Chronic Toxicity Crustaceans, Daphnia magna, NOEC: > 576mg/L/21d.
Persistence/degradability and mobility:	Abiotic degradation: Water, hydrolyses Result: acid/base equilibrium as a function of pH. Degradation Products: Carbonic acid/bicarbonate/carbonate Biodegradation Remarks: The methods for determining the biological degradability are not applicable to inorganic substances High mobility in water and soil/sediments Avoid contaminating waterways, drains and sewers. Does not bioaccumulate.

13. DISPOSAL CONSIDERATIONS

Disposal methods:

Dispose of in accordance with all local, state and federal regulations. All empty packaging should be disposed of in accordance with Local, State, and Federal Regulations or recycled/reconditioned at an approved facility.

Contact a specialist disposal company or the local waste regulator for advice. Where possible recycling is preferred to disposal or incineration. Clean container with water. Dispose of rinse water in accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.

14. TRANSPORT INFORMATION

Road and Rail Transport

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Proper Shipping Name: SODIUM BICARBONATE

Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

Proper Shipping Name: SODIUM BICARBONATE

Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

Proper Shipping Name: SODIUM BICARBONATE (Not restricted according to IATA DGR)

15. REGULATORY INFORMATION

MATERIAL SAFETY DATA SHEET

Classification: Based on available information, not classified as hazardous according to criteria of ASCC; NON HAZARDOUS SUBSTANCE.

Hazard Category: Not hazardous according to the HS (Minimum degrees of hazard) Regulations 2001

Risk Phrase(s): N/A
Safety Phrase(s): N/A

Poisons Schedule: N/A

AICS Name: CARBONIC ACID, MONOSODIUM SALT

16. OTHER INFORMATION

This material safety data sheet has been prepared by Midland Chemicals

This MSDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Midland Chemicals cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material. If clarification or further information is needed, the user should contact Midland Chemicals at the contact details on page 1.

Midland Chemical's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.