



MATERIAL SAFETY DATA SHEET

SODIUM BICARBONATE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Sodium Bicarbonate
Product Code	SBUSB
Other Names	Bump
Product Use	Soda Blasting
Company Name	Australian Soda Blasting Supplies
Address	Suite 4 63-65 Garfield Road East Riverstone NSW 2765
Telephone Number	02 9627 7886
Emergency Telephone	02 9627 7886

2. HAZARDS IDENTIFICATION

NON HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.

Not classified as hazardous according to the criteria of ASCC.

Hazards	-
Risk Phrases	-
Safety Phrases	-

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (common name)	CAS Number	Proportion
Sodium bicarbonate	144-55-8	>98.8%
Inorganic salts, water	-	<1%
Ingredient deemed not to be hazardous	Proprietary	0.2%

4. FIRST AID MEASURES

Inhalation	Remove victim to fresh air. Seek medical attention if symptoms persist.
Ingestion	Thoroughly rinse mouth with water. Give large amounts of water to drink. Seek immediate medical attention.
Skin	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical attention if symptoms persist.
Eyes	In case of contact with material, immediately flush skin or eyes with running water for at least 15 minutes. Seek medical attention if symptoms persist.
Note to Doctor	Treat symptomatically based on individual reactions of patient and judgment of doctor.



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5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	For major fires call the Fire Brigade. Ensure that an escape path is available from any fire.
Hazardous Combustion Products	Water fog, water spray, foam, dry agent (carbon dioxide or dry chemical powder). This product will liberate carbon dioxide and sodium carbonate, which is a respiratory, skin and eye irritant. Avoid exposure to lime dust combined with sodium bicarbonate as caustic soda may be formed on the skin.
Firefighting Equipment	Wear ASCC approved self-contained breathing apparatus and full protective clothing.
Unusual Fire or Explosion Hazards	No information provided.
Hazchem Code	Not allocated.

6. ACCIDENTAL RELEASE MEASURES

Spills	Wear full protective clothing to prevent skin and eye contamination. Avoid generating dust. Eliminate all sources of ignition. Increase ventilation. Do not allow product to reach drains, sewers or waterways. If product does enter a waterway, advise the Environmental Protection Authority or your local Waste Management Authority. Contain and sweep/shovel up spills with dust binding material or use industrial vacuum cleaner. Collect and seal in properly labeled containers for disposal. Flush spill site with plenty of water to eliminate any residue. Wash contaminated clothing before storing or re-use.
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7. HANDLING AND STORAGE

Handling	Avoid skin and eye contact and inhalation of dust. Observe good personal hygiene practices and recommended procedures.
Storage	Store in a cool, dry, well-ventilated area and out of direct sunlight. Keep containers tightly closed when not in use – check regularly for spills. Protect against physical damage. Store away from incompatible materials including acids and sources of ignition.

8. EXOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards (ASCC)	Inspirable dust: TWA: -ppm / 10mg/m ³ STEL:-ppm / -mg/m ³ Respirable dust: TWA: -ppm / 3mg/m ³ STEL:-ppm / -mg/m ³
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Engineering Controls	Local exhaust ventilation is recommended when dusts can be released in excess of established airborne exposure limits.
Respiratory Protection	Wear an effective dust mask if engineering controls are inadequate or use an ASCC approved full face supplied air respirator if high airborne concentrations of the material are present. See Australian Standards AS/NZS 1715 and 1716 for more information
Eye Protection	To prevent eye contact wear eye protection such as safety glasses with side shields.
Skin Protection	To prevent skin contact wear protective clothing, such as rubber or PVC gloves and light-weight protective clothing.
Hygienic Practices	Food, beverages and tobacco products should not be stored or consumed where this material is in use. Provide eyewash fountains in close proximity to points of potential exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White powder
Odour	Odourless
Solubility in water	No information available
Boiling Point / Range	Not applicable
Freezing / Melting point	No information available
Vapour Pressure	Not applicable
Vapour Density (Air = 1)	Not applicable
Specific Gravity	1
Volatility (% by weight)	Not applicable
pH	8.4 (10g/L)
Flash Point	Not applicable
Flammable Limit – Lower	Not applicable
Flammable Limit – Upper	Not applicable
Decomposition Temperature	70°C

10. STABILITY AND REACTIVITY

Chemical Stability	Product is stable under normal conditions of use and storage.
Incompatible Materials	Acids. Avoid exposure to lime dust combined with sodium bicarbonate as caustic soda may be formed on the skin.
Hazardous Decomposition Products	Carbon dioxide and sodium carbonate, which is a respiratory, skin and eye irritant.
Hazardous Polymerization	No information available.
Conditions to Avoid	Sources of ignition, excessive heat, direct sunlight, moisture and high temperatures.

11. TOXICOLOGICAL INFORMATION

Toxicity	Oral (rat) LD ₅₀ = 4220 mg/kg
Routes of Exposure	Inhalation, ingestion, eye and skin
Health effects from likely routes of exposure	Inhalation: May cause cough and mild respiratory irritation. Ingestion: Ingestion of large amounts may cause nausea,



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	vomiting and abdominal pain. Dosed above 5mg/kg body weight can cause alkalosis and expansion in extra-cellular fluid volume with oedema.
Eye:	May cause mild irritation.
Skin:	May cause mild skin irritation in sensitive individuals, particularly if the skin is moist.
Effects of Overexposure	No information available.
Existing Conditions	None known.
Aggravated by Exposure	
Carcinogenicity	No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No information available.
Mobility	No information available.

13. DISPOSAL CONSIDERATIONS

Disposal methods and containers	Dispose according to applicable local and state government regulations.
Special precautions for landfill or incineration	Please consult your state Land Waste Management Authority for more information

14. TRANSPORT INFORMATION

Not classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail.

UN Number	Not applicable
Proper Shipping Name	Not applicable
Dangerous Goods Class	Not applicable
Hazchem Code	Not applicable
Packing Group	Not applicable
Special Precautions	Not applicable

15. REGULATORY INFORMATION

Sodium bicarbonate is listed in the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

Last Revision of MSDS	Rev 1.1 (08/10/2008)	
Prepared by	MSDS.COM.AU Pty Ltd	www.msds.com.au



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Abbreviations Used

IARC: International Agency for Research on Cancer
ASCC: Australian Safety and Compensation Council
NTP: National Toxicology Program (U.S.)
OSHA: Occupational Safety and Health Administration (U.S.)
STEL: Short term exposure limit
TWA: Time weighted average

Emergency Contacts

Australian Soda Blasting Supplies	02 9627 7886
Australian Soda Blasting Supplies – Emergency Number	02 9627 7886
Police and Fire Brigade	000
Poisons Information Centre	13 11 26

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Please read instructions / label before using product.