Blastrite
SURFACE PREPARATION INNOVATION

Material Safety Data Sheet
Conforms to ISO 11014-1 and the South African Occupational Health and Safety Act (Act 85 of 1993)

Sodabrade®

COMPANY DETAILS

Name: Blastrite (Pty) Ltd.
Address: P O Box 5515
Cape Town, 8000
South Africa
e-mail: sales@blastrite.co.za
Website: http://www.blastrite.com

Emergency Tel: 08600 BLAST
Tel Number: +27 (0)21 417 1700
Fax Number: +27 (0)21 425 2970

SECTION 1 –PRODUCT AND COMPANY IDENTIFICATION

Trade name:	Sodabrade	CAS Number:	N/A
Chemical Family:	Inorganic salt	NOISH Number:	N/A
Chemical Name:	Carbonic acid monosodium salt	Hazchem Code:	N/A
Synonyms:	Soda, Bicarbonate of soda, Baking soda, Monosodium carbonate, Soda mint, $NaHCO_3$	UN Number:	N/A

SECTION 2 – COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient
Sodium Bicarbonate

Exposure Guidelines:
Sodium bicarbonate - Exposure Guideline 1500 micrograms/m3 TWA for 12 hours, 2300 micrograms/m3 TWA (TWA = Time Weighted Average/8 Hours Unless Otherwise Noted) for 8 hours.

Dow Chemical Exposure Guideline 10 mg/m3 TWA.

SECTION 3 – HAZARDS IDENTIFICATION

Appearance: White crystalline powder (granulated product specific for wet blasting)
Physical State: Solid
Odour: Odourless

Routes of Entry: Inhalation and skin contact.

Effects of Overexposure: Material has low acute oral or inhalation toxicity. Material may be slightly irritating to the eyes, skin, and respiratory tract. Inhalation of dust may cause coughing.

Carcinogenicity: No carcinogenicity data found. Not listed by IARC, NTP, ACGIH, or OSHA.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water. Get medical attention.

Skin: Remove contaminated clothing and clean before reuse. Wash all exposed areas of skin with plenty of soap and water. Get medical attention if irritation develops.

Inhalation: Move individual to fresh air. Get medical attention if breathing difficulty occurs. If not breathing, provide artificial respiration assistance (mouth-to-mouth) and call a physician immediately. May aggravate pre-existing upper respiratory and lung disorders.

Ingestion: Ingestion of large amounts may cause abdominal discomfort or injury. Call a physician or poison control centre. No first aid procedures are normally required.

Note to Physician: Large doses, particularly in patients with rena insufficiency, have produced systematic alkalosis and / or expansion in the extracellular fluid volume with edema.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point: Not applicable
UEL: Not applicable
LEL: Not applicable

Extinguishing Media: Use water, carbon dioxide, dry chemical, foam, or Halon.

Unusual Fire and Explosion Hazards: None known.

Hazardous Combustion Products: May emit toxic fumes when exposed to heat or fire.

Fire Fighting Equipment: Evolves into carbon dioxide when heated. Carban dioxide is an asphyxian and self-contained breathing apparatus is necessary if large quantities are involved. Sodium Bicarbonate decomposes on heating, resulting in formation of sodium carbonate (soda ash) which is an irritant. Avoid contact and inhalation of soda ash.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Spills: Wear protective equipment, including eye protection, to avoid exposure (see Section 8 for specific handling precautions). Vacuum material with appropriate dust collection filter in place. Be aware of potential for dust explosion when using electrical equipment. If vacuum is not available, lightly mist material and remove by sweeping or wet wiping.

SECTION 7 – HANDLING AND STORAGE

Storage Conditions: Warehouse: 10 to 40 C (45 to 104 F). For certain items, other storage conditions may be required.

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

See Section 2 for Exposure Guideline information.

Respiratory Protection: Use an approved respirator / mask.

Eye Protection: Chemical goggles and/or face shield.

Ventilation: Provide general and / or local exhaust ventilation to control airborne levels.

Disposal: Dispose in accordance with pertinent regulations.

Other Protective Equipment: Chemical-resistant gloves and body covering to minimize skin contact. Safety glasses are always required.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Not applicable
Melting Point:	Not applicable
Specific Gravity:	2.159
pH:	8.2 (1% solution)
Evaporation Rate:	Not applicable
Water Solubility:	8.6 g/100 ml @ 20 C (68 F)
Vapor Density:	Not applicable
Vapor Pressure:	Not applicable

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable at normal temperatures and pressures (stable below 200 F or 93 C)

Incompatibility: May react with strong oxidizing agents (e.g., peroxides, permanganates, nitric acid, etc.) and strong acids.

Hazardous Decomposition: May emit toxic fumes when heated to decomposition. Decomposes to carbon dioxide and soda ash.

Hazardous Polymerization: Will not occur.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Exposure

Oral:
Sodium bicarbonate - Rat, median lethal dose 4220 mg/kg.

Skin: No applicable information found.

Inhalation:
Sodium bicarbonate - Rat, median lethal concentration greater than 4740 mg/m3 (duration unspecified).

Skin Contact: No applicable information found.

Eye Contact:
Sodium bicarbonate - Rabbit, mild irritant

Chronic Exposure

Target Organ Effects: No applicable information found.

Reproduction:
Sodium bicarbonate - No teratogenic effects reported in rats or mice given large doses during pregnancy.

Sensitization: No applicable information found.

Mutagenicity:
Sodium bicarbonate - Negative in Ames assay.

SECTION 12 – ECOLOGICAL INFORMATION

Ecotoxicity Data:
Sodium bicarbonate
Daphnia magna 48-hour median lethal concentration: 11.7 mmol/L to 26.3 mmol/L
Western mosquitofish 96-hour median lethal concentration: 5.6 g/L
Bluegill 96-hour median lethal concentration: 8.25 g/L
Rainbow trout median lethal concentration (duration unspecified): 7.7 g/L

Environmental Fate: No applicable information found.

Environmental Summary:
Sodium bicarbonate - This material is practically non-toxic to aquatic organisms. Material is soluble in water and may leach from soil into groundwater. This product is not regulated under OSHA hazard communication standard 19 CFR 1910, 1200 or SARA Title III.

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal: Because of it's non-hazardous nature, Sodabrade Media is safe for disposal, however, the product being removed may be classified as hazardous. Dispose of any cleanup materials and waste residue according to all applicable laws and regulations.

SECTION 14 – TRANSPORT INFORMATION

Regulatory Organisations:

DOT: Not Regulated

ICAO/IATA: Not Regulated

IMO: Not Regulated

SECTION 15 – REGULATORY INFORMATION

Below is selected regulatory information chosen primarily for company usage. This section is not a complete analysis or reference to all applicable regulatory information. Please consider all applicable laws for your company / province.

Sodium Bicarbonate

TSCA:	Yes
CERCLA:	Not on list
SARA 302:	Not on list
SARA313:	Not on list
OSHA Substance Specific:	No

EU Regulations
Not assigned on overall EC Classification

SECTION 16 – OTHER INFORMATION

The information and recommendations presented in this data sheet are to the best of our knowledge and belief accurate and reliable, but do not constitute a warranty. None of our representatives or agents are authorised to give any guarantee or warranty or make any representation in addition or contrary to the above, and we do not accept liability for claims of any kind for any loss, including, without limitation, consequential loss, injury or damage arising from the use of the information or recommendations, or of the products, which are the subject matter hereof. The products are sold subject to our standard conditions of sale and tender, copies of which are available on request.