



Manufacturer of Specialty Chemicals

Safety Data Sheet

Section 1. Identification		
Product Identifier	Sodium Bicarbonate	Version: 5 Effective Date: 20 February 2016
Other Means Of Identification	Sodium hydrogen carbonate, Baking soda, sodium acid carbonate, carbonic acid monosodium salt.	
Initial Supplier Identifier	Chemfax Products Ltd. 11444 – 42 Street SE Calgary, AB T2C 5C4 Tel: 403-287-2055	
Recommended Use and Restrictions On Use	Industrial chemical. No restrictions.	
Product Family	Inorganic salt	
24 Hour Emergency	Canutec (613) 996-6666	

Section 2. Hazard Identification	
Hazard Classification	Not a regulated product
Signal Word	None
Hazard Statement	None
Precautionary Prevention Statement	Non Hazardous
Precautionary Response Statement	Non Hazardous
Precautionary Storage Statement	Non Hazardous
Precautionary Disposal Statement	Non Hazardous
Other Hazards	None

Section 3. Composition / Information on Ingredients			
Chemical Name	Common Name or Synonyms	CAS NO. and Other Unique Identifiers	% by weight
Sodium Bicarbonate	Baking soda	144-55-8	100

Section 4. First-Aid Measures	
Eye Contact	Flush eyes with water for 15 minutes. Seek medical attention.

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Skin Contact	Wash skin with water.
Inhalation	Remove victim to fresh air. If there is difficulty breathing, seek immediate medical attention.
Ingestion	Rinse mouth with water if conscious. Do not induce vomiting. Lay victim on left side to prevent aspiration of any vomit. Seek immediate medical attention.
Most Important Symptoms and Effects Both Acute and Delayed	Prolonged inhalation of dust may cause respiratory irritation. Ingestion of large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema.
Immediate Medical Attention and Special Treatment	If exposed or concerned, get medical advice and attention.

Section 5. Fire-Fighting Measures

Suitable and Unsuitable Extinguishing Media	Use extinguishing media appropriate for surrounding fire.
Hazardous Combustion Products	Carbon dioxide. At temperatures above 850 °C, sodium oxide may be produced – this is a skin and eye irritant.
Specific Hazards Arising From the Product	NOT FLAMMABLE . Under fire conditions, hazardous fumes will be present.
Special Protective Equipment and Precautions For Fire-Fighters	Fire-fighters should wear self contained breathing apparatus and full protective clothing. Use water spray to cool containers and structures exposed to fire.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures	Not required under normal conditions of use. Evacuate unnecessary personnel. Ventilate area. Mop up spilled material.
Environmental Precautions	This product is not environmentally hazardous.
Methods and Materials For Containment and Clean-Up	Scoop up product, place in a dry container. Wash area with water.

Section 7. Handling and Storage

Precautions For Safe Handling	Avoid generating dust.
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Conditions For Safe Storage	Store in a cool dry place. Keep containers closed when not in use. Sodium bicarbonate will react with acids to yield carbon dioxide, this can accumulate in confined spaces. Carbon dioxide is an asphyxiant at levels over 5%. Do not enter confined areas until they have been well ventilated, and oxygen levels have been established.
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Section 8. Exposure Controls / Personal Protection				
Control Parameters	TWA: 8 Hr	STEL: 15 min	Ceiling	IDLH *
	All components are non-hazardous.			
Exposure Controls	Local exhaust ventilation			
Appropriate Engineering Controls				
Individual Protective Measures				
Eye / Face Protection	Chemical safety goggles			
Skin Protection	Glove			
Respiratory Protection	Dust mask			

Section 9. Physical and Chemical Properties	
Appearance	White, crystalline powder
Odour	None
Odour Threshold	Not applicable
pH	8.2 (10% solution)
Flash Point	Not applicable
Boiling Point and Boiling Range	No data
Melting Point and Freezing Point	No data
Evaporation Rate	Not applicable
Flammability (solid, gas)	Not flammable
Upper and Lower Flammability or Explosive Limits	No data
Vapour Pressure	Not applicable
Vapour Density	Not applicable
Relative Density	62 lb/ft ³
Solubility	806 gm/ 100 ml @ 20 °C
Partition co-efficient, n-Octanol/Water	No data
Auto-ignition Temperature	Not applicable
Decomposition Temperature	No data

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Viscosity	Not applicable
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Section 10. Stability and Reactivity	
Reactivity	Reacts with acids with liberation of carbon dioxide.
Chemical Stability	The product is stable
Possibility of Hazardous Reactions	None
Conditions to Avoid	Temperatures above 65 °C.
Incompatible Materials	Reacts with acids to form carbon dioxide. May yield free caustic in the presence of lime dust (CaO) and moisture.
Hazardous Decomposition Products	Heating above 100 °C may cause dangerous levels of carbon dioxide gas to be present in confined spaces. Yields sodium oxide if exposed to temperatures above 850 °C.

Section 11. Toxicological Information			
Component Toxicity	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium bicarbonate	7.3 g/kg (Rat)		>4.74 mg/l (Rat)
Likely Routes of Exposure			
Skin:	Not an irritant.		
Eyes:	Not an irritant.		
Inhalation:	No known effects.		
Ingestion:	Small quantities would not cause any harm. Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema.		
Acute Toxicity Estimates (ATE)	Oral(rat) : 7.3 g/kg. Inhalation (rat): > 4.7 mg/l/4h		
STOT (Specific Target Organ Toxicity) – Single Exposure	Not classified		
Aspiration Toxicity	Not classified		
STOT (Specific Target Organ Toxicity) – Repeated Exposure	Not classified		
Skin Corrosion / Irritation	Skin contact with large amounts of dust may cause mechanical irritation.		
Serious Eye Damage / Irritation	Contact may cause irritation due to mechanical abrasion.		
Respiratory or Skin Sensitization	Prolonged inhalation of dust may cause respiratory irritation		



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Carcinogenicity	Not listed.
Reproductive Toxicity	
- Sexual Function and Fertility	Not classified
- Development of Offspring	Not classified
- Effects on or via Lactation	Not classified
Germ Cell Mutagenicity	Not classified
Interactive Effects	Not classified
Other Information	None

Section 12. Ecological Information	
Ecotoxicity	EC50: 4100 mg/l (Daphnids), LC50: 7100 mg/l (Bluegill), LC50: 7700 mg/l (Rainbow trout)
Persistence and Degradability	Not established
Bioaccumulative Potential	Will not accumulate
Biodegradability	This product readily biodegradable
Mobility in Soil	No data,
Other Adverse Effects	None

Section 13. Disposal Considerations	
Disposal Considerations	Dispose of contents / container in accordance with local regulations.

Section 14. Transport Information	
UN Number	None
UN Proper Shipping Name	None
Transport Hazard Class(es)	None
Packaging Group	None
Environmental Hazards	Not applicable
Bulk Transport	Not applicable
Special Precaution	Not applicable
DOT Erg#	Not applicable

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Section 15. Regulatory Information	
Canada – DSL Inventory	All components of this product are either on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL) or exempt
TSCA	All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt
Additional Information	None

Section 16. Other Information	
NFPA Rating	Health-0/ Flammability-0/Reactivity-0/Special Hazard-Not applicable
HMIS Rating	Health-0/Flammability-0/Reactivity-0/Personal Protection-See Section 8.
Prepared by:	Chemfax Products Ltd., Technical Department
Date Prepared:	7 October, 2011
Date of Latest Revision:	20 February, 2016
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