

# SAFETY DATA SHEET

Creation Date 29-January-2010	Revision Date 18-January-2018	Revision Number 6
	1. Identification	
Product Name	Sodium bicarbonate	
Cat No. :	S233-3; S233-10; S23310LC; S233-50; S233-3 S637-12; S637-50; S63750LC; S637-212; XXS NC1205558; XXS631PET25KG; NC0710541; N	637GPD350LB;
CAS-No Synonyms	144-55-8 Sodium hydrogen carbonate; Sodium acid carbonate; Carb (Crystalline/Powder/Certified ACS/USP/FCC/EP/BP/WP/JF	
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use	
Details of the supplier of the safet	y data sheet	

Company Importer/Distributor Fisher Scientific 112 Colonnade Road, Ottawa, ON K2E 7L6, Canada Tel: 1-800-234-7437

Manufacturer Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

## **Emergency Telephone Number**

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

## Classification

WHMIS 2015 Classification

Not classified under the Hazardous Products Regulations (SOR/2015-17)

Based on available data, the classification criteria are not met

Label Elements None required

Component		CAS-No	Weight %	
Sodium bicarbonate		144-55-8	>95	
	4. First-aid	d measures		
ye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.			
skin Contact	Wash off immediately wit immediately if symptoms		15 minutes. Get medical attention	
nhalation	Move to fresh air. Get me	edical attention immediately if	symptoms occur.	
ngestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.			
lost important symptoms/effects lotes to Physician	None reasonably foresee Treat symptomatically	able.		
		ing measures		
uitable Extinguishing Media	Use water spray, alcohol-	resistant foam, dry chemical	or carbon dioxide.	
Insuitable Extinguishing Media	No information available			
Flash Point Method -	No information available No information available			
utoignition Temperature Explosion Limits				
Upper	No data available			
Lower	No data available			
Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t No information available No information available			
pecific Hazards Arising from the C lon-combustible, substance itself doe		pose upon heating to produce	e corrosive and/or toxic fumes.	
lazardous Combustion Products sodium oxides Protective Equipment and Precaution s in any fire, wear self-contained bre rotective gear.		demand, MSHA/NIOSH (app	proved or equivalent) and full	
IFPA Health 0	<b>Flammability</b> 0	Instability 1	Physical hazards N/A	
	6. Accidental re	elease measures		
Personal Precautions Invironmental Precautions	Ensure adequate ventilat Should not be released in		equipment. Avoid dust formation.	
lethods for Containment and Clear	n Sweep up or vacuum up	spillage and collect in suitable	e container for disposal. Avoid dust	

Handling Storage	Wear personal protective equipment. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid contact with skin, eyes and clothing. Avoid dust formation. Keep containers tightly closed in a dry, cool and well-ventilated place.
	8. Exposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.

## **Engineering Measures**

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

## Personal protective equipment

Eye Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.			
Hand Protection	Wear appropriate protectiv	e gloves and clothing to preven	t skin exposure.	
Glove material	Breakthrough time	Glove thickness	Glove comments	
Natural rubber	See manufacturers	-	Splash protection only	
Nitrile rubber	recommendations			
Neoprene				
PVC				

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

#### **Respiratory Protection**

No protective equipment is needed under normal use conditions.

Recommended Filter type: Particle filter

### Environmental exposure controls

No information available.

### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

9. Physical and chemical properties				
Physical State	Powder Solid			
Appearance	White			
Odor	Odorless			
Odor Threshold	No information available			
8.3 0.1M aq. solution				
Melting Point/Range	270 °C / 518 °F			
Boiling Point/Range	No information available			
sh Point No information available				
Evaporation Rate	Not applicable			

Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

No information available

No data available No data available No information available Not applicable No information available Slightly soluble in water No data available

> 50°C Not applicable C H Na O3 84.01

## 10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Hygroscopic.		
Conditions to Avoid	Avoid dust formation. Incompatible products. Exposure to moist air or water. Excess heat. Temperatures above 50°C.		
Incompatible Materials	Strong oxidizing agents, Acids		
Hazardous Decomposition Product	<b>s</b> Sodium oxides		
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		

11. Toxicological information

Acute Toxicity

#### Product Information Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium bicarbonate	LD50 = 4220 mg/kg (Rat)	Not listed	Not listed

 Toxicologically Synergistic
 No information available

 Products
 No

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

Carcinogenicity

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium bicarbonate	144-55-8	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effects	5	No information available.				
Developmental Effect	ts	No information available.				
Teratogenicity		No information ava	ailable.			

The table below indicates whether each agency has listed any ingredient as a carcinogen.

STOT - single exposure STOT - repeated exposure	None known None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

## 12. Ecological information

## Ecotoxicity

Component	Freshwater Algae		Freshwater Fish	Microtox	Water Flea	
Sodium bicarbonate	EC50: 650 mg/L/120h		LC50: 8250 - 9000 mg/L, 96h static (Lepomis macrochirus)	-	EC50: 2350 mg/L/48h	
Persistence and Degradability		Soluble in wa	ater Persistence is unlikely	based on information ava	ilable.	
<b>Bioaccumulation/ Accumulation</b>		No information available.				
Mobility Will likely b		Will likely be	y be mobile in the environment due to its water solubility.			
		13. Di	sposal considera	ations		
Waste Disposal Method	5	hazardous w	ste generators must deterr aste. Chemical waste gen ardous waste regulations to	erators must also consult	local, regional, and	
		1/1	ransport inform	ation		

	14. Transport information
DOT	Not regulated
DOT TDG IATA	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

## All of the components in the product are on the following Inventory lists: X = listed

## International Inventories

Component	DSL	NDSL	TSCA	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Sodium bicarbonate	Х	-	Х	205-633-8	-		Х	Х	Х	Х	Х

## Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

## 16. Other information

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Revision Summary	This document has been updated to comply with the requirements of WHMIS 2015 to align with the Globally Harmonised System (GHS) for the Classification and Labelling of Chemicals.

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of SDS**