



## MATERIAL SAFETY DATA SHEET

### SODIUM BICARBONATE

#### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER : **MPL Products**  
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Canning Vale,  
Western Australia,  
Australia-6155  
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E-mail: [info@mplproducts.com.au](mailto:info@mplproducts.com.au)  
Website: [mplproducts.com.au](http://mplproducts.com.au)

PRODUCT NAME : **SODIUM BICARBONATE**

#### SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

SODIUM BICARBONATE

CAS NUMBER: 144-55-8

EC NUMBER: 205-633 8

#### SECTION 3 - HAZARDS IDENTIFICATION

- A substance of low toxicity widely used in food and medicine.
- Treat as low toxicity dust
- No significant health or environmental hazards are associated with the material.

#### SECTION 4 - FIRST AID MEASURES

**Inhalation:** Remove to fresh air

**Skin Contact:** Wash skin with plenty of water. If irritation occurs and persists, seek medical advice

**Eye Contact:** Wash eye thoroughly with eye wash solution or clean water for at least 10 minutes to ensure thorough rinsing. Obtain medical attention if necessary.

**Ingestion:**

- DO NOT induce vomiting
- Wash mouth with water and drink plenty of water
- Obtain medical attention if necessary.



## **SECTION 5 - FIRE FIGHTING MEASURES**

Flash Point: Non-combustible

Extinguishing Media: All extinguishing products are allowed

Hazardous Decomposition Products (under fire conditions) - Not applicable.

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES MINOR SPILLS**

### **Environmental Precautions:**

Prevent discharges into the environment (rivers, water courses, sewers etc.)

### **Methods for Clean up:**

Clear up spillages by suitable means, avoiding dust formation

Collect as much as possible in a suitable clean container, preferably for re-use, otherwise for disposal

Wash the spillage area with large quantities of water.

## **SECTION 7 - HANDLING AND STORAGE**

### **Handling:**

Atmospheric levels should be controlled in compliance with the occupational exposure limit.

Skin protection should be worn for regular and continuous use.

### **Storage:**

Store in a cool dry place (in humid conditions the product will absorb moisture from the atmosphere and this will eventually cause caking and loss of free-flowing properties).

Do not store adjacent to acids.

**Fire and Explosion Prevention:** Non-combustible

## **SECTION 8 - PERSONAL PROTECTION**

### **Engineering Controls**

Provide adequate ventilation

In case of insufficient ventilation, wear suitable respiratory equipment

### **Occupational Exposure Standards**

Not listed by H&SE

Nuisance Dust Recommended Limits: OES 10mg/m<sup>3</sup> (total dust) (8hr TWA) 5mg/m<sup>3</sup> (respirable dust) 8hr TWA).

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**Respiratory Protection :** In the case of high dust levels, wear suitable respiratory protective equipment, i.e. Dust masks or respirators

**Hand Protection :** Wear suitable chemical resistant protective gloves for frequent or prolonged operations

**Eye Protection:** Wear suitable eye / face protection

**Skin and Body Protection :** Protective clothing is required

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES PHYSICAL PROPERTIES**

Appearance	Crystalline Powder
Oxidizing Properties	Not known
Color	White
Vapor Pressure	Not applicable
Odors	Odorless
Specific Gravity	2.22
Bulk Density	980 kg/m <sup>3</sup>
Flash Point	Not applicable
Solubility in water	9.5%w/w @250C
Flammability	Not applicable
Solubility in other solvents	Not applicable
Auto Ignition Temp.	Not applicable
pH value	8.3 (1%w/w solution)
Explosive properties	Not known
Partition Coefficient	Not applicable
Explosion Limits	Not applicable



## **SECTION 10 - CHEMICAL STABILITY AND REACTIVITY INFORMATION**

### **Stability**

Stable under recommended storage and handling conditions (see Section 7).

### **Conditions to avoid:**

Contact with acids unless under controlled conditions

Heating the product above 60 deg C.

Humidity and moisture can cause caking of product.

**Materials to avoid:** Acids

**Hazardous decomposition products :** Not applicable

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

### **Acute Toxicity:**

Oral LD 50, rat: 4220 mg/kg.

**Inhalation:** Dust may cause discomfort Eye Irritation, Dust may cause discomfort

**Skin Irritation:** No known effect

**Long Term Exposure :** No known effect.

## **SECTION 12 - ECOLOGICAL INFORMATION**

### **Acute Ecotoxicity:**

Fish, *Lepomis macrochirus* : 96hr-LC50 : 8600mg/l

Daphnia sp. : 48hr-LC50 : 2350mg/l

### **Biodegradability:**

Aerobic / Anaerobic degradation: Not applicable (inorganic compound)

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

### **Product**

- Must be disposed of in accordance with local, state or national regulations
- Do not dispose of directly with acids
- Dissolve in water and neutralize with an acid Packaging

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## SECTION 14 - TRANSPORTATION INFORMATION

- Not classified as hazardous for transport.

\* Land Transport

ADS Class	Not restricted	ADR item number	Not relevant
RID Class	Not restricted	RID item number	Not relevant
TREM - Card	Not relevant	UN Number	None
Hazard Identification number	None	Substance Identification	None
Proper shipping name	None	Number	

## SECTION 15 – REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific to the substance or mixture

### ***EU Regulations***

Major Accident Hazard 96/82/EC

Legislation Directive 96/82/EC does not apply

### ***National Legislation***

Storage Class 10-13

## SECTION 16 - OTHER INFORMATION

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.

This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any other processes. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. We do not accept liability for any loss or damage that may arise from the use of this information, nor do we offer a warranty against patent infringement.

**MPL PRODUCTS** reserves the right to refuse shipment of this material to any consumer who fails to demonstrate the ability to consistently handle and use it safely and in compliance with all applicable laws, rules and regulations. Such a demonstration may require on-site inspection of any or all storage, processing, packaging, and other handling systems that come in contact with it.

Customers are responsible for compliance with local, state, and federal regulations that may be pertinent in the storage, application, and disposal of this product.

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