

-EM Safety Data Sheet According to SANS 10234:2008 and SANS 11014:2010 Issue date:02/03/2020 Revision date: 02/03/2025 Version: 1.0 **SECTION 1: Identification Product identifier** 1.1. : SODIUM HYDROGEN (Bi) CARBONATE Trade name IUPAC name : sodium hydrogencarbonate EC-No. 205-633-8 CAS-No. 144-55-8 Product code 119155xxx · Formula NaHCO3 12 Relevant identified uses of the substance or mixture and uses advised against Recommended uses and restrictions : For laboratory use only 1.3. **Supplier's details** Labchem (Pty)Ltd 6 Wakefield Road Founders Hill 1609 Johannesburg - South Africa T +27 11 452 1116 - F +27 86 588 0293 techlab@labchem.co.za - www.labchem.co.za 1.4. **Emergency telephone number** Emergency number : +27 11 452 1116 SECTION 2: Hazards identification 2.1. Classification of the substance or mixture **Classification according to the United Nations GHS** Hazardous to the aquatic environment -Acute Hazard Not classified Full text of H statements : see section 16 22 Label elements Labelling according to the United Nations GHS No labelling applicable 23 Other hazards Adverse physicochemical, human health and : To our knowledge, this product does not present any particular risk, provided it is handled in environmental effects accordance with good occupational hygiene and safety practice SECTION 3: Composition/information on ingredients 3.1. **Substances IUPAC** name : sodium hydrogencarbonate Substance identification codes: See section 1.1 Product identifier % Classification according to Name the United Nations GHS sodium bicarbonate (CAS-No.) 144-55-8 ≥ 99 Aquatic Acute Not classified (Main constituent) 3.2. **Mixtures** Not applicable SECTION 4: First aid measures **Description of first aid measures** 4.1. First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. First-aid measures after skin contact • Wash skin with plenty of water. First-aid measures after eye contact · Rinse eyes with water as a precaution. First-aid measures after ingestion Call a poison center or a doctor if you feel unwell. :

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

Indication of any immediate medical attention and special treatment needed 4.3. Treat symptomatically.

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SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Special hazards arising from the su	ibstance or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
<b>SECTION 6: Accidental release mea</b>	isures
6.1. Personal precautions, protective ed	quipment and emergency procedures
No additional information available	
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containm	
Methods for cleaning up	: Mechanically recover the product.
Other information	: Dispose of materials or solid residues at an authorized site.
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	<ul> <li>Ensure good ventilation of the work station. Wear personal protective equipment.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</li> </ul>
7.2. Conditions for safe storage, includ	ing any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool.
<b>SECTION 8: Exposure controls/pers</b>	sonal protection
8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering controls	
Appropriate engineering controls	Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
	ch as personal protective equipment (PPE)
Hand protection	: Protective gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment
Personal protective equipment symbol(s):	
8.4. Exposure limit values for the other	components

8.4. Exposure limit values for the other components

No additional	information	available

SECTION 9: Physical and chemical properties		
9.1. Information on basic	physical and chemical properties	
Physical state	: Solid	
Appearance	: Powder.	
Molecular mass	: 84.007 g/mol	
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Colour	: white.
Odour	: Odourless.
Odour threshold	: No data available
PH	: No data available
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: 50 °C
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: > 50 °C
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: 66.9 Pa Temp.: 20 °C
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: No data available
Density	: 2.2 g/cm <sup>3</sup>
Relative gas density	: No data available
Solubility	: Water: 96 g/l (at 20°C)
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available

#### 9.2. Other information

No additional information available

SECTION 10: Stability and reactivity		
10.1. Reactivity		
The product is non-reactive under normal conditions of use, storage and transport.		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactions		
No dangerous reactions known under normal conditions of use.		
10.4. Conditions to avoid		
None under recommended storage and handling conditions (see section 7).		
10.5. Incompatible materials	Incompatible materials	
No additional information available		
Hazardous decomposition products		
Under normal conditions of storage and use, hazardous decomposition products should not be produced.		
SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity (oral) : Not classified		
Acute toxicity (dermal) : Not classified		
Acute toxicity (inhalation) : Not classified		
SODIUM HYDROGEN (Bi) CARBONATE (144-55-8)		

# LD50 oral rat > 4000 mg/kg bodyweight Animal: rat, Guideline: other:EPA-FIFRA 40 CFR 160 Skin corrosion/irritation : Not classified

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: Not classified
: Not classified

SECTION 12: Ecological information		
12.1. Toxicity		
Ecology - general	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.	
Hazardous to the aquatic environment, short- term (acute)	Not classified.	
Hazardous to the aquatic environment, long- term (chronic)	Not classified	
SODIUM HYDROGEN (Bi) CARBONATE (144-5	55-8)	
LC50 fish 1	7100 mg/l Test organisms (species): Lepomis macrochirus	
EC50 Daphnia 1	4100 mg/l Test organisms (species): Daphnia magna	
NOEC (chronic) > 576 mg/l Test organisms (species): Daphnia magna Duration: '21 d'		
12.2. Persistence and degradability		
SODIUM HYDROGEN (Bi) CARBONATE (144-55-8)		
Persistence and degradability	No additional information available	
12.3. Bioaccumulative potential		
SODIUM HYDROGEN (Bi) CARBONATE (144-5	55-8)	
Bioaccumulative potential	No additional information available	
12.4. Mobility in soil		
SODIUM HYDROGEN (Bi) CARBONATE (144-55-8)		
Mobility in soil	No additional information available	
12.5. Other adverse effects		
Ozone	Not classified	
Other adverse effects	No additional information available	

SECT	SECTION 13: Disposal considerations		
13.1.	Disposal methods		
Waste t	reatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.	

#### **SECTION 14: Transport information**

In accordance with SANS / IMDG / IATA

SANS	IMDG	ΙΑΤΑ
14.1. UN number		
Not regulated for transport		
14.2. Proper Shipping Name		
Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)		
Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
	:	
No supplementary information available		

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Special precautions for user

# - SANS

14.6.

No data available

- IMDG No data available

#### - IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information		
15.1. Safety, health, and environmental	15.1. Safety, health, and environmental national regulations specific for the product	
Regulatory reference	SANS 10234:2008; SANS 11014:2010; SANS 10228:2012;SANS 10229:2010; SANS 10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National Road Traffic Act 93 of 1996.	
SECTION 16: Other information		
Issue date	: 02/03/2020	
Revision date	: 02/03/2025	

SDS South Africa

The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is ntended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.