

## MATERIAL SAFETY DATA SHEET

### Carbonate-bicarbonate Buffer, pH 9.6 with 0.05% azide

#### 1. Identification of the substance/preparation and of the company/undertaking

**Product name:** Carbonate-Bicarbonate Buffer, pH 9.6 with 0.05% azide  
**Chemical formula:** N/A  
**Art no:** A09-8932  
**Manufacturer:** Medicago AB  
Danmark Berga  
SE-755 98 Uppsala  
Sweden  
Phone: +46 (0) 18 56 11 80, fax: +46 (0) 18 56 11 88  
**Emergency phone:** 112 (Sweden)

#### 2. Hazards Identifications

**Classification (Hazard class and category):** Xi, T, N  
**Human health hazards:** Irritating to respiratory system and skin. Risk of serious damage to eyes. Toxic if swallowed.  
**Chemical hazards:** Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

#### 3. Composition/information on ingredients

##### Carbonate-bicarbonate buffer

Sodium Bicarbonate:	Mass/Volume (%):	Specific chemical composition not available
	CAS no:	144-55-8
	EC no:	205-633-8
	Symbol:	-
	R-phrases:	-
	S-phrases:	-
Sodium Bicarbonate (anhydrous):	Mass/Volume (%):	Specific chemical composition not available
	CAS no:	497-19-8
	EC no:	207-838-8
	Index no:	011-005-00-2
	Symbol:	Xi
	R-phrases:	36
S-phrases:	-	
Sodium azide:	Mass/Volume (%):	0.05%
	CAS no:	26628-22-8
	EC no:	247-852-1
	Index no:	011-004-00-7
	Symbol:	Xi, T, N
	R-phrases:	25-32-50/53
S-phrases:	26/28-45-61	

#### 4. First-aid measures

**Inhalation** If inhaled, move to fresh air. If breathing is difficult, give oxygen.  
**Skin contact** Wash with soap and water. Get medical attention.  
**Eye contact** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.  
**Ingestion** If swallowed, rinse mouth with plenty of water. Get medical attention.

## 5. Fire-Fighting measures

<b>Flammability of the product:</b>	No
<b>Extinguishing media:</b>	Use dry chemical powder, water spray, foam or carbon dioxide.
<b>Hazardous thermal (de)composition products:</b>	Carbon oxides, Sodium/Sodium oxides. Emits toxic fumes under fire conditions.
<b>Special protective actions for fire fighters:</b>	Wear self-contained breathing apparatus and full turnout gear to prevent contact with skin and eyes.

## 6. Accidental release measures

<b>Personal precautions:</b>	Safety goggles. Full suit. Wear respiratory equipment. Boots. Gloves.
<b>Spill and leak:</b>	Use appropriate tools to put the material in a bag for a waste disposal container. Avoid raising dust. Finish cleaning by spreading water on the contaminated surface and ventilate area.

## 7. Handling and storage

<b>Handling:</b>	Do not breathe dust. Avoid contact with skin, eyes and clothing. Eating, drinking and smoking in work areas is prohibited.
<b>Storage:</b>	Store tightly closed at room temperature.

## 8. Personal protection/exposure controls



<b>Protective clothing:</b>	
<b>Personal protective equipment:</b>	Safety goggles, gloves, wear suitable respiratory equipment, lab coat.
<b>Engineering measures:</b>	Shower and eye bath. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
<b>Hygiene measures:</b>	Wash hands after handling compounds and before eating, smoking and using lavatory. Remove contaminated clothing and protective equipment before entering eating areas.

## 9. Physical and chemical properties

<b>Appearance:</b>	Solid, white
<b>Odour:</b>	N/A
<b>pH:</b>	9.6
<b>Melting point/freezing point:</b>	N/A
<b>Initial boiling point and boiling range:</b>	N/A
<b>Flash point:</b>	N/A
<b>Evaporation rate:</b>	N/A
<b>Flammability:</b>	N/A
<b>Upper/lower flammability or explosive limits:</b>	N/A
<b>Vapour pressure:</b>	N/A
<b>Vapour density:</b>	N/A
<b>Relative density:</b>	N/A
<b>Solubility(ies):</b>	N/A
<b>Partition coefficient: n-octanol/water:</b>	N/A

<b>Auto-ignition temperature:</b>	N/A
<b>Decomposition temperature:</b>	N/A
<b>Viscosity:</b>	N/A
<b>Molecular Weight:</b>	N/A

## 10. Stability and reactivity

<b>Stability and reactivity:</b>	Stable
<b>Possibility of hazardous reactions:</b>	N/A
<b>Conditions to avoid:</b>	N/A
<b>Incompatible materials:</b>	Strong oxidizing agents
<b>Hazardous decomposition products:</b>	Carbon monoxide, Carbon dioxide, Sodium/Sodium oxides

## 11. Toxicological information

<b>Acute toxicity:</b>	N/A
<b>Germ cell mutagenicity:</b>	N/A
<b>Carcinogenicity:</b>	N/A
<b>Reproductive toxicity:</b>	N/A

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Potential effects on health:

- Causes irritation of skin by exposure
- Material is irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
- Toxic if swallowed
- Causes severe eye irritation

## 12. Ecological information

<b>Ecotoxicity:</b>	Toxic to aqueous organisms and can cause long-term adverse effects in aquatic environment.
<b>Toxicity of the products of biodegradation:</b>	N/A
<b>Persistence and degradation:</b>	N/A
<b>Bio accumulative potential:</b>	N/A
<b>Mobility in soil:</b>	N/A

## 13. Disposal considerations

### Disposal methods and containers:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Contact a licensed professional waste disposal service (In Sweden for example SKAB) to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

## 14. Transport information

**Shipping name (UN shipping name):** Toxic solid, inorganic, N.O.S (Sodium azide)

**UN-number:** 3288

**RID/ADR**

Class 6.1, packing group III

**IMDG**

Class 6.1, packing group III, EMS-No: F-A, S-A

**IATA**

Class 6.1, packing group III

**Special provisions for transport:** N/A

## 15. Regulatory information

**EU Regulations**

**Hazard symbol(s):** Xi – irritant  
T – toxic  
N – harmful for the environment

**Risk Phrases:** 25 – Toxic by ingestion  
36 – Irritant to eyes  
51/53 – Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**Safety Phrases** 26- In case of eye contact – rinse with plenty of water and seek medical advice.  
45 – In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)  
61 – Avoid release to the environment. Refer to special instructions safety data sheet

**US Federal Regulations**

**TSCA:** N/A  
**HCS Classification:** N/A

## 16. Other information

**Precautions and Disclaimer:** For laboratory use only. Not for drug, household or other uses.  
**Revision date:** 2010-05-17

**Notice to reader**

To the best of our knowledge, the information given is accurate. However, we do not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.