

## MATERIAL SAFETY DATA SHEET

### Sodium Acetate Buffer, pH 7.0 and pH 5.2

#### 1. Product and Company Information

<b>Product Name:</b>	Sodium Acetate Buffer, pH 7.0 and pH 5.2
<b>Product Number</b>	A12-9187, A12-9188
<b>Synonyms</b>	Anhydrous sodium acetate * Natriumacetat (German) * Octan sodny (Czech) * Sodium Acetate
<b>Manufacturer:</b>	Medicago AB Danmark Berga 755 98 Uppsala Sweden
<b>Phone No</b>	+46 (0) 18 56 11 80
<b>Fax</b>	+46 (0) 18 56 11 88
<b>Emergency Phone:</b>	112 (Sweden)

#### 2. Composition/Information on Ingredients

Product Name	CAS #	EC #	Annex I Index Number
Sodium Acetate	None	None	None
<b>Formula</b>	C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> Na		
<b>Molecular Weight</b>	82.03 AMU		

#### 3. Hazards Identification

##### SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Not hazardous according to Directive 67/548/EEC.

#### 4. First-Aid Measures

##### AFTER INHALATION

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

##### AFTER SKIN CONTACT

In case of contact, immediately wash skin with soap and copious amounts of water.

##### AFTER EYE CONTACT

In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

##### AFTER INGESTION

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

#### 5. Fire-Fighting Measures

##### EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

##### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

##### SPECIAL RISKS

Specific Hazard(s): Emits toxic fumes under fire conditions.

## 6. Accidental Release Measures

### PROCEDURE (S) OF PERSONAL PRECAUTION (S)

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

### METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

## 7. Handling and Storage

### HANDLING

Directions for Safe Handling: Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

### STORAGE

Conditions of Storage: Keep tightly closed.

## 8. Exposure Controls/Personal Protection

### ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

### GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

### EXPOSURE LIMITS

Country	Source	Type	Value
USA	OSHA	PEL	15 mg/m <sup>3</sup>
Remarks:	TOTAL DUST		
USA	OSHA	PEL	5 mg/m <sup>3</sup>
Remarks:	RESPIRABLE FRACTION		
USA	ACGIH	TLV	10 mg/m <sup>3</sup>
Remarks:	DUST CONTAININ NO ASBESTOS		

### PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dust are desired, use type N95 (US) or type P1 (EN 143) dust masks.

Protective gloves.

Hand Protection:

Chemical safety goggles.

Eye Protection:

## 9. Physical and Chemical Properties

Appearance	White powder
Property	Value
pH	8.5 – 9.9
Molecular Weight	N/A
BP/BP Range	N/A
MP/MP Range	300° C
Flash Point	> 250° C
Freezing Point	N/A
Autoignition Temp	600° C
Oxidizing Properties	N/A
Explosive Properties	N/A
Explosion Limits	N/A
Vapor Pressure	N/A
SG/Density	1.528 g/cm <sup>3</sup>
Partition Coefficient	Log Kow: - 4.220
Viscosity	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
Evaporation Rate	N/A
Bulk Density	0.320 – 0.470 kg/l
Decomposition Temp	324° C
Solvent Content	N/A

Water Content	N/A
Surface Tension	N/A
Conductivity	N/A
Miscellaneous	N/A
Solubility	Solubility in Water: 3 M in H <sub>2</sub> O, 20 ° C complete, colorless

## 10. Stability and Reactivity

### STABILITY

Stable

Conditions to Avoid: Moisture

Materials to Avoid: Strong oxidizing agents.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

## 11. Toxicological Information

RTECS NUMBER: AJ4300010

### ACUTE TOXICITY

LD50

Oral

Rat

3530 mg/kg

LC50

Inhalation

Rat

> 30,000 mg/m<sup>3</sup>

1H

LD50

Oral

Mouse

6891 mg/kg

LD50

Subcutaneous

Mouse

3200 MG/KG

LD50

Skin

Rabbit

> 10000 mg/kg

### IRRITATION DATA

Skin

Rabbit

500 mg

24H

Remarks: Mild irritation effect

Eyes

Rabbit

10 mg

Remarks: Mild irritation effect

### SIGNS AND SYMPTOMS OF EXPOSURE

Abdominal pain, nausea, vomiting.

### ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

## 12. Ecological Information

### ELIMINATION

Elimination: 99 %  
Classification: Substantially biodegradable.

### ECOTOXICOLOGICAL EFFECTS

Test Type: LC50 Fish  
Species: Lepomis macrochirus (Bluegill)  
Time: 24 h  
Value: 5,000 mg/l  
Test Type: LC50 Fish  
Species: Leuciscus idus  
Time: 48 h  
Value: >1,000 mg/l  
Test Type: EC50 Daphnia  
Species: Daphnia magna  
Time: 48 h  
Value: >1,000 mg/l

## 13. Disposal Considerations

### SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service 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

### RID/ADR

Non-hazardous for road transport.

### IMDG

Non-hazardous for sea transport

### IATA

Non-hazardous for air transport

## 15. Regulatory Information

### CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

S-PHRASES: 22-24/25  
Do not breathe dust. Avoid contact with skin and eyes.

Not hazardous according to Directive 67/548/EEC.

### COUNTRY SPECIFIC INFORMATION

#### Germany

WGK: 1  
ID-Number: 367  
KBwS - Decision

## 16. Other Information

**Precautions and Disclaimer:** For laboratory use only. Not for drug, household or other uses.

**Revision date:** 2010-07-02

### 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.