

MATERIAL SAFETY DATA SHEET

Buffered Sodium Citrate 3.2%, 0.109 M

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

Product name: Buffered Sodium Citrate 3.2 %, 0.109 M
Chemical formula: N/A
Art no: A12-8480, A12-8483
Synonyms: Buffered Sodium Citrate
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: Xi - Irritant
Human health hazards: Irritating to respiratory system and skin, Risk of serious damage to eyes. In case of contact with eyes, rinse immediately with plenty of water.



3. Composition/information on ingredients

Tri-Sodium-Citrate Dihydrate:

Mass/Volume (%): 79 %
CAS no: 61-32-04-3
EC no: E-331
Index no: -
Symbol: -
R-phrases: -
S-phrases: -

Citric acid-monohydrate:

Mass/Volume (%): 21 %
CAS no: 77-92-9
EC no: E-331
Index no: -
Symbol: Xi
R-phrases: R37/38, R41
S-phrases: S26, S36/37/39

For full information on risk and safety phrases, see section 15.

4. First-aid measures

Ingestion: Give milk to drink, loosen up tight clothes. Get medical attention. (Large quantities of Tri-Sodium-Citrate may cause nausea, vomiting cramps, and produce acidic irritation of mouth, and throat.)
Inhalation: Remove to fresh air, if not breathing, give artificial respiration. Get medical attention.
Skin contact: Rinse with water and soap.
Eye contact: Rinse with plenty of water, remove contact lenses.
General: Irritation, some allergic reaction

5. Fire-fighting measures

Flammability of the product:	Not combustible
Extinguishing media:	Use dry chemical powder, water spray, fog or foam.
Hazardous thermal (de)composition products:	None
Special protective actions for fire fighters:	Wear breathing apparatus and full turnout gear.

6. Accidental release measures

Personal precautions:	Safety goggles. Full suit. Wear suitable respiratory equipment. Boots. Gloves.
Spill and leak:	Use appropriate tools to put the material in a waste disposal container. Finish cleaning by spreading water on the contaminated surface and ventilate the room.

7. Handling and storage

Handling:	Wash hands before and after use. Eating, drinking and smoking in working areas is prohibited.
Storage:	Avoid humidity and high temperatures. Store in a cool place in closed container.

8. Personal protection/exposure controls



Protective clothing:	
Personal protective equipment:	Safety goggles, gloves, wear suitable respiratory equipment, lab coat.
Engineering measures:	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.
Hygiene measures:	Wash hands after handling compounds and before eating, smoking and using lavatory.

9. Physical and chemical properties

Appearance:	White powder
Odour:	No detectable
pH:	N/A
Melting point/freezing point:	Solid
Initial boiling point and boiling range:	N/A
Flash point:	N/A
Evaporation rate:	N/A
Flammability:	N/A
Upper/lower flammability or explosive limits:	N/A
Vapour pressure:	N/A
Vapour density:	N/A
Relative density:	N/A
Solubility(ies):	Soluble in water
Partition coefficient: n-octanol/water:	N/A
Auto-ignition temperature:	N/A
Decomposition temperature:	N/A
Viscosity:	N/A
Molecular Weight:	N/A

10. Stability and reactivity

Stability and reactivity:	Stable
Possibility of hazardous reactions:	None
Conditions to avoid:	Excess heat
Incompatible materials:	Reactive with oxidizing agents, reducing agents, metals, alkalis
Hazardous decomposition products:	N/A

11. Toxicological information

Acute toxicity: N/A

The toxicological properties are not fully investigated as far as we know.

Potential effects on health:

- Can cause irritation of the skin by exposure
- Inhalation can be dangerous or cause irritation in the respiratory tract.
- Can be poisonous if consumed
- Can cause irritation of the eyes.

12. Ecological information

Ecotoxicity:	N/A
Toxicity of the products of biodegradation:	N/A
Persistence and degradation:	N/A
Bio accumulative potential:	N/A
Mobility in soil:	N/A

13. Disposal considerations

Disposal methods and containers:

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

14. Transport information

RID/ADR	Non-hazardous for transportation
IMDG	Non-hazardous for transportation
ICAO/IATA	Non-hazardous for transportation

15. Regulatory information

EU Regulations

Classifications:	Xi - irritant
R-phrases:	R37/38, R41 Irritating to respiratory system and skin, Risk of serious damage to eyes
S-phrases:	S26, S36/37/39 In case of contact with eyes, rinse immediately with plenty of water.

16. Other information

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

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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.