



MATERIAL SAFETY DATA SHEET (MSDS)

RTA.GBF.261 Revision Date/Revision no: -/0 Release Date:02.02.2016

1. Identification Of The Substance / Company

Product Name: TDC (20 TEST) _%4

Catalog Number: 04005020

Manufacturer : RTA Labs. GEPOSB Cumhuriyet Cad. No:3 41400 Gebze-Kocaeli-TURKEY

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2 . Hazards Identification

Classification of the substance or mixture

-Sodium Citrate;

C: corrosive to

R34: May cause fainting.

- Sodium Hydroxide

Inhalation and ingestion are harmful.

It is an irritant.

Harmful to the eyes.

-NALC

May cause irritation of skin and eyes.

Phosphate Buffer

This substance has not been classified as dangerous according to European Union regulations.

Label elements

Labelling (REGULATION (EC) No 1272/2008)

Labelling (67/548/EEC or 1999/45/EC)

The product does not need to be labelled in accordance with EC directives or respective national laws.

Other hazards

None known.

3. Composition / Ingredients

NAME OF THE PRODUCT	HAZARDOUS SUBSTANCE INCLUDED	EC NUMBER	CAS NUMBER
<i>Sodium Citrate</i>	<i>Sodium hydroxyde</i>	<i>215-185-5</i>	<i>1310-73-2</i>
<i>Sodium Hydroxide</i>	<i>Sodium Hypochlorite</i>	<i>231-668-3</i>	<i>7681-52-9</i>
<i>Sample Collection Tube</i>	<i>NALC</i>	<i>210-498-3</i>	<i>616-91-1</i>

4. First Aid Measures

Sodium Citrate

- Sodium Hydroxide

- **After inhalation:** Take fresh air, consult doctor if there is any complaint.
- **After skin contact:** Immediately wash with water and soap and rinse. Get away from countamine clothes.
- **After eye contact:** Rinse opened eye for 15 minutes with plenty of water, seek medical advice.
- **After chewing:** Drink a few liters of water after you swallow. Avoid vomiting. If the complaints persist, seek medical advice.

-Sample Receiving Tube (Includes NALC)

- **After inhalation:** Take fresh air, consult doctor if there is any complaint.
- **After skin contact:** Immediately wash with water and soap and rinse. In case of irritation consult doctor.
- **After eye contact:** Rinse opened eye for 15 minutes with plenty of water, seek medical advice.
- **After swallowing:** Avoid vomiting. Do not give anything by mouth to the conscious person. If the complaints persist, seek medical advice.

-Phosphate Buffer

- **After taking a break:** If you have a complaint, seek medical attention.
- **After skin contact:** Immediately wash with water and soap and rinse. In case of irritation consult doctor.
- **After eye contact:** Rinse opened eye for 15 minutes with plenty of water, seek medical advice.
- **After swallowing:** If symptoms persist, seek medical advice.

5. Fire-Fighting Measures

· Suitable extinguishing agents

CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **Protective equipment:** No special measures required.

6. Accidental Release Measures

-Sodium Citrate**- Sodium Hydroxide**

. **Personal safety precautions:** Not required.

. **Environmental precautions:** Wipe with a damp mat or sponge.

Methods for cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Use a neutralizing agent.

. **Additional warnings:** See Sections 7, 8, and 13.

-Sample Receiving Tube (Includes NALC)

. **Personal safety precautions:** Not required.

. **Protective measures for the environment:** Sweep the spill area and throw it to the appropriate waste. Ventilate the environment.

. **Additional warnings:** See Sections 7, 8, and 13.

-Phosphate Buffer

. **Personal safety precautions:** Not required.

. **Environmental precautions:** Wipe with a damp mat or sponge.

. **Precautions:** Nonrequired

7. Handling And Storage**-Sodium Citrate**

. **Safe use information:** No special measures required.

. **Advice on protection against fire and explosion:** No special measures required.

. **Special requirements for storage and containers:** No special precautions required. It must be kept in its package at + 15 / + 25 ° C.

. **Further information on storage conditions:** Do not store together with acids.

- Sodium Hydroxide

. **Safe use information:** No special measures required.

. **Advice on protection against fire and explosion:** No special measures required.

. **Special requirements for storage and containers:** No special precautions required. It must be kept in its package at + 15 / + 25 ° C.

. **Further information on storage conditions:** Do not store together with acids.

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. **Further information on storage conditions:** None

-Phosphate Buffer

. **Safe use information:** No special measures required.

. **Advice on protection against fire and explosion:** No special measures required.

. Special requirements for storage and containers: No special precautions required. It must be kept in its package at + 15 / + 25 ° C.

.Further information on storage conditions: Do not store together with acids.

8. Exposure Controls / Personal Protection

. Limit values for the components to be controlled at the workplace: Up.

. Additional warnings: The lists valid on the date of issue were taken as basis.

. Personal protective equipment:

. General protective and sanitary measures: The current precautionary measures should be observed when working with chemical substances.

. Breathing protective measures:

Use a breathing filter device if it is exposed to short-term or low-level adverse effects, or if it is exposed to intense or long-lasting effects, then the surrounding air-breathing device should be used.

. Protective gloves

. Eye protection: Safety glasses

. Body protection: Protective work clothing

9. Physical And Chemical Properties

-Sodium Citrate

- Sodium Hydroxide

-Phosphate Buffer

. General information:

Form: Fluid

Color: Colorless

Smell: Characteristic

. Status change

Melting / freezing point: Not determined.

Boiling point / boiling range: Not determined.

. Flammability: Not applicable.

. Explosion hazard: The product does not present an explosion hazard.

. Density: Undetermined.

. Solubility in water: soluble

-Sample Receiving Tube (Includes NALC)

. General information:

Form: Powder

Color: White

Odor: Characteristic

. Status change

Melting / freezing point: Not determined.

Boiling point / boiling range: Not determined.

. Flammability: Not applicable.

. Explosion hazard: The product does not present an explosion hazard.

. Density: Undetermined.

. Solubility in water: soluble

10. Stability And Reactivity

. Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

. Materials to be avoided: Incompatible material: strong oxidizers.

. Dangerous reactions No dangerous reactions known

. Dangerous products of decomposition: No dangerous decomposition products known.

11. Toxicological Information

-Sodium Citrate

. Acute toxicity:

. Primary irritant effect:

. Bind: Could cause fainting and irritation.

. Eye: Fainting can cause irritation and blindness.

. Sensitivity: Sensitivity enhancement is not heard.

- Sodium Hydroxide

. Primary irritant effect:

. Bind: Could cause fainting and irritation.

. Eye: Fainting can cause irritation and blindness.

. Sensitivity: Sensitivity enhancement is not heard.

-Sample Receiving Tube (Includes NALC)

. Primary irritant effect:

. Bind: Causes irritation.

. Eye: May cause irritation.

. Sensitivity: Sensitivity enhancement is not heard.

-Phosphate Buffer

. Primary irritant effect:

. Bind: Causes irritation.

. Eye: May cause irritation.

. Sensitivity: Sensitivity enhancement is not heard.

12. Ecological Information

-Sodium Citrate

Water Toxicity

It may have a detrimental effect on the cause of PH change.

It does not cause biological oxygen deficiency.

Neutralization is possible in wastewater treatment plants.

Biodegradation:

Methods for determining biological corrosion resistance do not apply to inorganic substances.

General notes: *Water hazard class 1 (Self-assessment): slight hazard for water.*

- Sodium Hydroxide

Water Toxicity

It has a high toxic effect for aquatic organisms.

It may have a detrimental effect on the cause of PH change.

Biodegradation:

Methods for determining biological corrosion resistance do not apply to inorganic substances.

-Sample Receiving Tube (Includes NALC)

Sufficient information is not available.

-Phosphate Buffer

Sufficient information is not available.

Other adverse effects

Additional information on ecology. Avoid throwing it around.

13. Disposal Considerations

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

14. Transport Information

Land transport (ADR/RID)

Not classified as dangerous in the meaning of transport regulations.

Inland waterway transport (ADN)

Not relevant

Air transport (IATA)

Not classified as dangerous in the meaning of transport regulations.

Sea transport (IMDG)

Not classified as dangerous in the meaning of transport regulations.

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

Not relevant.

15.Regulatory Information

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

- *Labelling according to Regulation (EC) No 1272/2008* Void
- *Hazard pictograms* Void
- *Signal word* Void
- *Hazard statements* Void
- *National regulations*
- *Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.*

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. Other Information

This material is not subject to current specific regulations.

The material's use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. The information provided on this Material Safety Data Sheet is provided in the interest of promoting safe handling of the material. While this information is believed to be correct RTA Labs. makes no warranty in respect of the information disclosed. Observe all federal, provincial, state and local laws concerning health and pollution.

Training advice

Provide adequate information, instruction and training for operators.

Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.