



MATERIAL SAFETY DATA SHEET (MSDS)

TRISODIUM CITRATE DIHYDRATE

Supplier: Basekim

CAS Number: 6132-04-3

Chemical Formula: $C_6H_5Na_3O_7 \cdot 2H_2O$

Molecular Weight: 294.10 g/mol

Document Status: Reference MSDS draft. Supplier verification is required before official issue.

SECTION 1: IDENTIFICATION

Item	Description
Product Name	Trisodium Citrate
Chemical Name	Trisodium Citrate Dihydrate
Synonyms	Sodium Citrate Tribasic Dihydrate
CAS Number	6132-04-3
Molecular Formula	$C_6H_5Na_3O_7 \cdot 2H_2O$
Supplier	Basekim
Recommended Uses	Food processing, pharmaceuticals, detergents, and industrial applications, subject to grade suitability
Emergency Contact	To be provided by supplier

SECTION 2: HAZARD IDENTIFICATION

GHS Classification: Available reference data generally do not classify trisodium citrate dihydrate for standard GHS health or environmental hazards. Product-specific combustible-dust assessment may be required.

Potential Hazards:

- Dust may cause mild eye irritation.



- Inhalation of airborne dust may irritate the respiratory tract.
- Prolonged skin contact may cause mild irritation.
- Excessive ingestion may cause gastrointestinal discomfort.
- Fine airborne dust may present a combustible-dust hazard.

Precautionary Measures:

Avoid generating dust. Use adequate ventilation and appropriate personal protective equipment. Keep containers closed and away from ignition sources.

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Component	CAS Number	Concentration
Trisodium Citrate Dihydrate	6132-04-3	According to product specification

Actual purity must be confirmed using the product's Certificate of Analysis.

SECTION 4: FIRST AID MEASURES

Eye Contact:

Rinse cautiously with clean water for at least 15 minutes. Remove contact lenses if possible. Seek medical attention if irritation persists.

Skin Contact:

Wash the affected area thoroughly with soap and water. Remove contaminated clothing.

Inhalation:

Move the affected person to fresh air. Seek medical assistance if breathing difficulties or persistent irritation occur.

Ingestion:

Rinse the mouth with water. Do not induce vomiting. Seek medical advice if symptoms develop.



SECTION 5: FIREFIGHTING MEASURES

Property	Information
Suitable Extinguishing Media	Water spray, dry chemical, foam, or carbon dioxide
Fire Hazard	Combustible-dust hazard may apply
Hazardous Combustion Products	Carbon monoxide, carbon dioxide, and sodium-containing decomposition products
Protective Equipment	Self-contained breathing apparatus and protective clothing

Avoid generating airborne dust during firefighting.

SECTION 6: ACCIDENTAL RELEASE MEASURES

- Restrict access to the affected area.
- Wear appropriate protective equipment.
- Avoid inhaling dust.
- Eliminate ignition sources where combustible-dust hazards apply.
- Collect spilled material using suitable dust-controlled equipment.
- Place contaminated material in properly labeled containers.
- Prevent large releases into drains and waterways.

Do not use compressed air to disperse accumulated dust.

SECTION 7: HANDLING AND STORAGE

Handling:

Use adequate ventilation during handling and transfer operations.

Avoid unnecessary dust generation and direct eye contact.

Wash hands thoroughly after handling.

Storage:

Store in a cool, dry, and well-ventilated warehouse.

Keep containers tightly closed and protect the product from moisture.



Store away from incompatible chemicals, excessive heat, and ignition sources.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Protection Type	Recommendation
Eye Protection	Safety glasses or protective goggles
Hand Protection	Suitable protective gloves
Respiratory Protection	Appropriate particulate respirator when dust exposure cannot be adequately controlled
Skin Protection	Protective work clothing
Ventilation	Local exhaust ventilation where dust forms

Follow applicable occupational exposure limits for airborne particulates.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Typical Information
Appearance	White crystalline powder or crystals
Physical State	Solid
Odor	Odorless
Molecular Weight	294.10 g/mol
pH (5% Solution)	Approximately 7.5–9.0
Water Solubility	Freely soluble
Flash Point	Not applicable as a conventional liquid flash-point measurement
Vapor Pressure	No data available
Decomposition Temperature	Product-specific data required

Actual physical and chemical properties must be confirmed against the manufacturer's Technical Data Sheet.



SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable under normal storage and handling conditions.

Reactivity: No hazardous reactions expected under recommended handling conditions.

Conditions to Avoid: Excessive heat, moisture exposure, and dust accumulation.

Incompatible Materials: Strong oxidizing agents and other incompatible materials identified in the manufacturer's product-specific SDS.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and sodium-containing decomposition products.

Hazardous Polymerization: Not expected.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure Route	Potential Effect
Inhalation	Dust may irritate the respiratory tract
Eye Contact	May cause mechanical irritation
Skin Contact	May cause mild irritation
Ingestion	Excessive amounts may cause gastrointestinal discomfort

Acute Toxicity: Product-specific toxicological data should be confirmed.

Skin Sensitization: Insufficient product-specific information available.

Carcinogenicity: No classification established in the available reference information.

Mutagenicity: No classification established in the available reference information.

Reproductive Toxicity: No classification established in the available reference information.



SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Available reference data do not indicate classification as hazardous to the aquatic environment.

Persistence and Degradability: Product-specific data should be confirmed.

Bioaccumulation: Significant bioaccumulation is not expected, although product-specific data are limited.

Mobility: High water solubility may allow movement through water systems.

Environmental Precautions: Avoid uncontrolled release into the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of waste according to applicable local, regional, and national regulations.

Collect unused material in suitable containers.

Do not discharge large quantities into drains or natural waterways.

Dispose of contaminated packaging according to its condition and applicable regulations.

SECTION 14: TRANSPORT INFORMATION

Transport Regulation	Classification
UN Number	Not assigned
ADR/RID	Not regulated as dangerous goods
IMDG	Not regulated as dangerous goods
IATA	Not regulated as dangerous goods
Transport Hazard Class	Not applicable
Packing Group	Not applicable

Confirm the transport classification against the approved SDS for the actual product before shipment.



SECTION 15: REGULATORY INFORMATION

EU CLP Regulation: Reference supplier information generally does not classify the substance under standard health and environmental hazard categories.

US OSHA: Combustible-dust classification may apply depending on product characteristics and supplier assessment.

Food Applications: Only appropriately certified food-grade material should be used in authorized food applications.

Pharmaceutical Applications: Pharmaceutical use requires compliance with relevant pharmacopoeial and regulatory requirements.

Regulatory requirements must be verified according to the destination country and intended application.

SECTION 16: OTHER INFORMATION

Product Name: Trisodium Citrate Dihydrate

Supplier: Basekim

CAS Number: 6132-04-3

Document Type: Material Safety Data Sheet

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