

SAFETY DATA SHEET

Creation Date 09-Dec-2009

Revision Date 13-Oct-2023

Revision Number 2

1. Identification

Product Name

Sodium Citrate Dihydrate

Cat No. :BP327-1, BP327-500CAS No
Synonyms6132-04-3
2-Hydroxy-1,2,3-Propanetricarboxylic Acid Trisodium Salt.Recommended Use
Uses advised againstLaboratory chemicals.
Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887 For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Combustible dust

Yes

Label Elements

Signal Word Warning

Hazard Statements

May form combustible dust concentrations in air

Precautionary Statements Storage Store in a well-ventilated place. Keep container tightly closed <u>Hazards not otherwise classified (HNOC)</u> None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Citrate, sodium, dihydrate	6132-04-3	>95
Sodium citrate	68-04-2	-

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	4. First-aid measures
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.
Ingestion	Do NOT induce vomiting. Get medical attention immediately if symptoms occur.
Most important symptoms and effects	No information available.
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature	500 °C / 932 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Dust can form an explosive mixture with air. Fine dust dispersed in air may ignite.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Sodium oxides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u> H	ealth 1	Flammability 1	Instability 0	Physical hazards N/A
6. Accidental release measures				
Personal Precautions Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin and personal protective equipment as required.			contact with skin and eyes. Use	
Environmental Precautions No special environmental precautions required. See Section 12 for additional			on 12 for additional Ecological	

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

Information.

7. Handling and storage			
Handling	Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.		
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents. Strong reducing agents. Acids. Bases.		
8. E	xposure controls / personal protection		
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.		
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.		
Personal Protective Equipment			
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.		
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.		
Respiratory Protection	No protective equipment is needed under normal use conditions.		
Recommended Filter type:	Particle filter.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

9. Phys	9. Physical and chemical properties		
Physical State Appearance Odor Odor Threshold pH Melting Point/Range Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas) Flammability or explosive limits	Solid White Odorless No information available 8.4 @ 20°C 5% aq. solution >300 °C / 572 °F No information available No information available Not applicable No information available		
Upper	No data available		

Lower Vapor Pressure Vapor Density Specific Gravity Solubility Partition coefficient; n-octanol/water Autoignition Temperature Decomposition Temperature Viscosity Molecular Formula Molecular Weight No data available No information available Not applicable No information available Soluble in water No data available 500 °C / 932 °F > 230°C Not applicable C6 H5 Na3 O7 . 2 H2 O 294.09

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.
Incompatible Materials	Strong oxidizing agents, Strong reducing agents, Acids, Bases
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO ₂), Sodium oxides
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

component information			
Component	LD50 Oral LD50 Dermal		LC50 Inhalation
Citrate, sodium, dihydrate	LD50 = 5400 mg/kg (Mouse)	LD50 = > 2000 mg/kg (Rat) (OECD	Not listed
	(OECD 401)	402)	
Sodium citrate	5400 mg/kg (Mouse)	Not listed	Not listed
Toxicologically Synergistic	No information available		

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation May cause skin, eye, and respiratory tract irritation

Sensitization No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Citrate, sodium, dihydrate	6132-04-3	Not listed				
Sodium citrate	68-04-2	Not listed				

Mutagenic Effects No information available

Reproductive Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.

STOT - single exposure None known

STOT - repeated exposure	None known
Aspiration hazard	No information available
Symptoms / effects,both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

12. Ecological information

Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea	
Sodium citrate	Not listed	LC50: 18000 - 32000 mg/L, 96h (Poecilia reticulata)	EC50 1800 - 3200 mg/L 8 h	EC50: 5600 - 10000 mg/L, 48h (Daphnia magna)	
Persistence and Degradabi	ility Soluble in wa	Soluble in water Persistence is unlikely based on information available.			
Bioaccumulation/ Accumul	lation No information	No information available.			
Mobility Will like		Will likely be mobile in the environment due to its water solubility.			
13. Disposal considerations					
hazardous w		aste. Chemical waste gen	mine whether a discarded of erators must also consult l o ensure complete and acc	ocal, regional, and	

	14. Transport information
DOT	Not regulated
DOT _TDG IATA_	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Citrate, sodium, dihydrate	6132-04-3	-	-	-
Sodium citrate	68-04-2	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Citrate, sodium, dihydrate	6132-04-3	-	-	-	Х	Х		Х	Х	-
Sodium citrate	68-04-2	Х	-	200-675-3	Х	Х	Х	Х	Х	KE-20843

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH Not applicable

REACH (1907/2006) -REACH (1907/2006) -Component CAS No **REACH Regulation (EC** 1907/2006) article 59 -Candidate List of Annex XIV - Substances Annex XVII - Restrictions Subject to Authorization on Certain Dangerous Substances of Very High Concern (SVHC) Substances Citrate, sodium, dihydrate 6132-04-3 --Sodium citrate 68-04-2 _ -_

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Citrate, sodium, dihydrate	6132-04-3	Not applicable	Not applicable	Not applicable	Not applicable
Sodium citrate	68-04-2	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Citrate, sodium, dihydrate	6132-04-3	Not applicable	Not applicable	Not applicable	Not applicable
Sodium citrate	68-04-2	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	09-Dec-2009 13-Oct-2023 13-Oct-2023 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS