

SAFETY DATA SHEET

Creation Date 09-Dec-2009

Revision Date 27-Jan-2022

Revision Number 1

1. Identification

Product Name

Sodium Citrate Dihydrate

Cat No. :	BP327-1, BP327-500
CAS No	6132-04-3
Synonyms	2-Hydroxy-1,2,3-Propanetricarboxylic Acid Trisodium Salt.
Recommended Use	Laboratory chemicals.
Uses advised against	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-ACROS-01 / **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> Health 1	Flammability 1	Instability 0	Physical hazards N/A	
6. Accidental release measures				
Personal Precautions	Ensure adequate ventilatio personal protective equipm		contact with skin and eyes. Use	
Environmental Precautions	No special environmental p	precautions required. See Section	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.	Exposure 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.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
	9 Physical and chemical properties

9. Physical	and chemical	properties

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

Vapor Density Specific Gravity Solubility Partition coefficient; n-octanol/water **Autoignition Temperature Decomposition Temperature** Viscosity Molecular Formula **Molecular Weight**

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 Products Carbon monoxide (CO), Carbon dioxide (CO2), Sodium oxides		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Information

Component Informa	tion							
Component		LD50 Oral	LD50 Oral		LD50 Dermal		LC50 Inhalation	
Citrate, sodium, dihydrate		LD50 = 5400 mg/kg (Mo (OECD 401)	D50 = 5400 mg/kg (Mouse) (OECD 401)		LD50 = > 2000 mg/kg (Rat) (OECD 402)		Not listed	
Sodium citra	te	5400 mg/kg (Mouse	5400 mg/kg (Mouse)		Not listed	No	Not listed	
Toxicologically Synergistic No information available Products Delayed and immediate effects as well as chronic effects fr				n short an	d long-term exposu	re_		
Irritation	May cause skin, e	May cause skin, eye, and respiratory tract irritation						
Sensitization		No information ava	ailable					
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinog					as a carcinogen.			
Component	CAS No	IARC	N	NTP	ACGIH	OSHA	Mexico	
Citrate, sodium, dihydrate	6132-04	-3 Not listed	Not	t listed	Not listed	Not listed	Not listed	
Sodium citrate	68-04-2	2 Not listed	Not	t listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information ava	No information available					
Reproductive Effect	ects No information available.							
Developmental Effects No information available.								
Teratogenicity	genicity No information available.		ailable.					
STOT - single exposureNone knownSTOT - repeated exposureNone known								

Other Adverse Effects	The toxicological properties have not been fully investigated.
Endocrine Disruptor Information	No information available
Symptoms / effects,both acute and delayed	No information available
Aspiration hazard	No information available

12. Ecological information

Ecotoxicity

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea			
Sodium citrate	Not listed	LC50: 18000 - 32000 mg/L,	EC50 1800 - 3200 mg/L 8 h	EC50: 5600 - 10000 mg/L,			
		96h (Poecilia reticulata)		48h (Daphnia magna)			
Persistence and Degrada	ability Soluble in w	Soluble in water Persistence is unlikely based on information available.					
Bioaccumulation/ Accum	ulation No informat	No information available.					
Mobility	Will likely be	mobile in the environment due to its water solubility.					
	13. D	isposal considera	ations				
Waste Disposal Methods	hazardous v	aste generators must determine whether a discarded chemical is classified as a waste. Chemical waste generators must also consult local, regional, and zardous waste regulations to ensure complete and accurate classification.					

	14. Transport information	
DOT	Not regulated	
DOT _ <u>TDG</u> 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 12(b) - Notices of Export 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.
California Proposition 85	This product does not contain any Proposition of 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

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
Component	CAS No	for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements		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

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Creation Date	09-Dec-2009
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Print Date Revision Summary	27-Jan-2022 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

