

🗲 Fisher Scientific

Part of Thermo Fisher Scientific Material Safety Data Sheet Revision Date 07-Mar-2013

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Revision Number 2

	1. PRODUCT AND COMPANY IDENTIFICATION
Product Name	Sodium Citrate Dihydrate
Cat No. :	BP327-1; BP327-500; S466-3; S466-3LC; S467-3; S467SAM-1; XXBA163
Synonyms	Citric acid trisodium salt dihydrate (Granular/Powder/Certified/USP/FCC/EP/BP/JP)
Recommended Use	Laboratory chemicals
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410	Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. HAZARDS IDENTIFICATION

CAUTION		
	Emergency Overview	
May cause eye, skin, and r Appearance White	espiratory tract irritation. The toxicological properties have not been Physical State Solid	fully investigated. Odor Odorless
Target Organs	None known	
Potential Health Effects		
Acute Effects Principle Routes of Exposure		
Eyes Skin Inhalation Ingestion	May cause irritation. May cause irritation. May cause irritation of respiratory tract. Ingestion may cause gastrointestinal irritation, nausea, vomiting and	diarrhea.
Chronic Effects None known		

Aggravated Medical Conditions

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component		CAS-No	Weight %			
Citrate, sodium, dihydrate		6132-04-3	100			
Sodium	citrate	68-04-2	-			
	4. FI	RST 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	Rinse with pler	Rinse with plenty of water. Get medical attention if symptoms occur.				
Inhalation	Move to fresh	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms				

Ingestion Do not induce vomiting. Obtain medical attention.

occur.

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flash Point Method -	No information available No information available
Autoignition Temperature	345 °C / 653 °F
Explosion Limits Upper Lower	No data available No data available
Unsuitable Extinguishing Media	No information available
Hazardous Combustion Products	No information available.
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No information available

Specific Hazards Arising from the Chemical None known.

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.

NFPA	Health 0	Flammability 0	Instability 0	Physical hazards N/A
	6.	ACCIDENTAL RELEASI	E MEASURES	
Personal Precautions	I	Use personal protective equipment	. Ensure adequate vent	ilation. Avoid dust formation.
Environmental Precaut		Should not be released into the envinformation.	vironment. See Section	12 for additional ecological

Methods for Containment and OUP	nt and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.					
	7. HANDLING AND STORAGE					
Handling	Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Avoid dust formation.					
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.					
8. E2	XPOSURE CONTROLS/PERSONAL PROTECTION					
Engineering Measures	None under normal use conditions.					
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.					
Personal Protective Equipment	<u>L</u>					
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by					

Eye/face Protection	wear appropriate protective eyegiasses 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	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard
	EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if
	exposure limits are exceeded or if irritation or other symptoms are experienced.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State
Appearance
Odor
Odor Threshold
рН

5% aq. solution Vapor Pressure Vapor Density Viscosity Boiling Point/Range Melting Point/Range Decomposition Temperature Flash Point Evaporation Rate Specific Gravity Solubility log Pow Molecular Weight Molecular Formula Solid White Odorless No information available 7.5-9.5

No information available Not applicable No information available 300 °C / 572 °F > 230°C No information available Not applicable No information available Soluble in water No data available 294.09 C6 H5 Na3 O7 . 2 H2 O

10. STABILITY AND REACTIVITY

Stability

Conditions to Avoid

Stable under normal conditions.

Incompatible products. Excess heat. Avoid dust formation.

Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	None under normal use conditions
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	
Product Information	No acute toxicity information is available for this product
Component Information	
Irritation	No information available
Toxicologically Synergistic Products	No information available
Chronic Toxicity	
Carcinogenicity	There are no known carcinogenic chemicals in this product.
Sensitization	No information available
Mutagenic Effects	No information available
Reproductive Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
Other Adverse Effects	See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.
Endocrine Disruptor Information	No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea		
Sodium citrate	Not listed	18000 - 32000 mg/L LC50	EC50 1800 - 3200 mg/L 8 h	5600 - 10000 mg/L EC50 48		
		96 h		h		

Persistence and Degradability

Bioaccumulation/Accumulation

No information available.

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Mobility

Will likely be mobile in the environment due to its water solubility.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Citrate, sodium, dihydrate	-	-	-	-	-		Х	-	Х	Х	-
Sodium citrate	Х	Х	-	200-675- 3	-		Х	Х	Х	Х	Х

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazardous Categorization	
Acute Health Hazard	
Chronic Health Hazard	

No No

Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

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

State Right-to-Know Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

Non-controlled

16. OTHER INFORMATION

Prepared By

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Revision Summary Update to Format Disclaimer

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of MSDS