# spectrum®



# SAFETY DATA SHEET

Preparation Date: 2/25/2014	Revision Date: 2/10/2016	Revision Number: G2
Product identifier	1. IDENTIFICATION	
Product code:	S1250	
Product Name:	SODIUM CITRATE, DIHYDRATE, CRYSTAL, REAGENT, A	ACS
Other means of identification		
Synonyms:	Trisodium citrate dihydrate 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, trisodium salt, o Citnatin Citreme Citrosoedine Citrosodna Natrocitral	dihydrate
CAS #: RTECS #	6132-04-3 TZ8595800 (Dihydrate) GE8300000 (Anhydrous)	
CI#:	Not available	
Recommended use of the chem	ical and restrictions on use	
Recommended use: Uses advised against	No information available. No information available	
Supplier:	Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000	
Order Online At:	https://www.spectrumchemical.com	
Emergency telephone number Contact Person: Contact Person:	Chemtrec 1-800-424-9300 Martin LaBenz (West Coast) Ibad Tirmiz (East Coast)	

# 2. HAZARDS IDENTIFICATION

# Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

# Label elements

Hazards not otherwise classified (HNOC) Not Applicable

# Other hazards

Not available

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Sodium Citrate, Dihydrate	6132-04-3	100
6132-04-3		

**4. FIRST AID MEASURES** 

First aid measures General Advice:	Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126)
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops. Consult a physician if necessary.
Eye Contact:	Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
Most important symptoms and effect	cts, both acute and delayed
Symptoms	May cause eye/skin irritation. May cause digestive (gastrointestinal) tract irritation. May cause gastrointestinal disturbances.

Indication of any immediate medical attention and special treatment needed
Notes to Physician:
Treat symptomatically

### **Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

# 5. FIRE-FIGHTING MEASURES

# Extinguishing Media Suitable Extinguishing Media:

Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.

Unsuitable Extinguishing Media:	No information available.
Specific hazards arising from the chemical	
Hazardous Combustion Products:	Carbon monoxide; Carbon dioxide; Sodium oxides
Specific hazards:	May be combustible at high temperatures
Special Protective Actions for Firefighters	
Specific Methods:	No information available.
Special Protective Equipment for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

# 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

Personal Precautions:Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes<br/>and clothing. Avoid dust formation. Remove all sources of ignition.Environmental precautionsNo information available.Methods and material for containment and cleaning upStop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.Methods for cleaning upSweep up and shovel into suitable containers for disposal. Clean contaminated<br/>surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

# **Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. Keep away from incompatible materials.

### Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid dust formation. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

# Conditions for safe storage, including any incompatibilities

### Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

# Incompatible Materials:

Strong oxidizing agents.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters** 

National occupational exposure limits

Product code: S1250

Product name: SODIUM CITRATE, DIHYDRATE, CRYSTAL, REAGENT, ACS

### **United States**

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Sodium Citrate, Dihydrate	None	None	None	None
6132-04-3				

# Canada

Canada Occupational Exposure Limits: Not determined

Components	Alberta	British Columbia	Ontario	Quebec
Sodium Citrate, Dihydrate 6132-04-3	None	None	None	None

# Australia and Mexico

Occupational Exposure Limits for Australia and Mexico: Not determined

Components	Australia	Mexico
Sodium Citrate, Dihydrate	None	None
6132-04-3		

# Appropriate engineering controls

# Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

# Individual protection measures, such as personal protective equipment

# Personal Protective Equipment

Eye protection:	Safety glasses Safety glasses with side-shields
Skin and body protection:	Long sleeved clothing. Chemical resistant apron. Gloves.
Respiratory protection:	Effective dust mask. Wear respirator with dust filter.
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Solid.

Odor: Odorless.

Molecular/Formula weight: 294.1

Flashpoint (°C/°F): No information available.

Lower Explosion Limit (%): No information available

Melting point/range(°C/°F): 313.9 °C/572 °F

**Bulk density:** No information available

Vapor pressure @ 20°C (kPa): No information available

**VOC content (g/L):** No information available

Viscosity: No information available

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Crystals. Crystalline powder. Granular.

Taste Cool. Saline.

Flammability: No information available

Flash Point Tested according to: Not available

Upper Explosion Limit (%): No information available

**Boiling point/range(°C/°F):** No information available

**Density (g/cm3):** No information available

**Evaporation rate:** No information available

Odor threshold (ppm): No information available

Miscibility: No information available Color: White.

Formula: C6-H5-Na-3O7.2H2O

Flash point (°C): No data available

Autoignition Temperature (°C/°F): No information available

**pH:** No information available

**Decomposition temperature(°C/°F):** Decomposes at red heat Becomes anhydrous at 150 °C **Specific gravity:** 1.665

Vapor density: No information available

Partition coefficient (n-octanol/water): No information available

**Solubility:** Freely soluble in water Insoluble in Alcohol

# **10. STABILITY AND REACTIVITY**

Reactivity Reactive with oxidizing agents

Chemical stability Stability:	Stable under recommended storage conditions
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur
Conditions to avoid:	Heat. Avoid dust formation. Incompatible materials.
Incompatible Materials:	Strong oxidizing agents.
Hazardous decomposition products:	Carbon monoxide. Carbon dioxide. Sodium oxides.
Other Information Corrosivity:	No information available

Special Remarks on Corrosivity: No information available

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

Product code: S1250

**Principal Routes of Exposure:** Ingestion. Inhalation.

# **Acute Toxicity**

# **Component Information**

# Sodium Citrate, Dihydrate - 6132-04-3

LD50/oral/rat = No information available LD50/oral/mouse = No information available LD50/dermal/rat = No information available LD50/dermal/rabbit = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No infomation available Other LD50 or LC50information = No information available

**Product Information** 

LD50/oral/rat = VALUE- Acute Tox Oral = No information available

LD50/oral/mouse = Value - Acute Tox Oral = No information available

LD50/dermal/rabbit VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

### LC50/Inhalation/mouse

VALUE-Vapor = No information available VALUE - Gas = No information available VALUE - Dust/Mist = No information available

Symptoms

Delayed and immediate effects	as well as chronic effects from short and long-term exposure
Aspiration hazard	No information available
Ingestion	Low hazard. May cause digestive (gastointestinal) tract irritation. May cause gastrointestinal disturbances. May cause alkalosis. It might depress the heart. It may affect behavior/central nervous system (tetany, convulsions).
Inhalation	May cause irritation of respiratory tract.
Eye Contact:	May cause eye irritation.
Skin Contact:	May cause skin irritation.

Sensitization: No information available

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic.

Components	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Sodium Citrate, Dihydrate	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity	No data is available
Reproductive Effects: Developmental Effects: Teratogenic Effects:	No information available No information available No information available
Specific Target Organ Toxicity	

STOT - single exposure	No information available
STOT - repeated exposure	No information available
Target Organs:	No information available

# **12. ECOLOGICAL INFORMATION**

Ecotoxicity

Ecotoxicity effects:	No data available.
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available
Mobility:	No information available

# **13. DISPOSAL CONSIDERATIONS**

# **Disposal Methods**

# Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

# Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Sodium Citrate, Dihydrate	None	None	None	None

Not Regulated

Not Regulated

Not Regulated

No information available

No information available

No information available

No information available

No information available No information available

None

No information available No information available No information available

No information available No data available No information available No Information available No information available

No information available

No information available

No information available

No information available

No information available

# DOT

UN-No:
Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
ERG No:
Marine Pollutant
DOT RQ (lbs):
Special Provisions
Symbol(s):

# **TDG (Canada)**

UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: Description:

# ADR

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Packing Group:	No information available
Subsidiary Risk:	No information available
Classification Code:	No information available
Description:	No information available
CEFIC Tremcard No:	No information available

# IMO / IMDG

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Description:	No information available
IMDG Page:	No information available
Marine Pollutant	No information available
MFAG:	No information available
Maximum Quantity:	No information available

# RID

UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: Classification Code: Description:

# ICAO

Product code: S1250

# 14. TRANSPORT INFORMATION

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	No information available
Description:	No information available
ΙΑΤΑ	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available

Hazard Class:No information availableSubsidiary Risk:No information availablePacking Group:No information availableERG Code:No information availableSpecial ProvisionsNo information availableDescription:No information available

# **15. REGULATORY INFORMATION**

### **International Inventories**

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Sodium Citrate, Dihydrate	Not Listed	Not present	Present	Not present	Present	Present	Not present

# **U.S. Regulations**

#### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

# Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity		Female Reproductive Toxicity:
Sodium Citrate, Dihydrate	Not Listed	Not Listed	Not Listed	Not Listed

# CERCLA/SARA

	Substances and their	Section 302 Extremely Hazardous Substances and TPQs	Hazardous	Chemical Category	Section 313 - Reporting de minimis
Sodium Citrate, Dihydrate	None	None	None	None	None

### U.S. TSCA

	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Sodium Citrate, Dihydrate	Not Applicable	Not Applicable

### Canada

Non-controlled

#### Sodium Citrate, Dihydrate

Uncontrolled product according to WHMIS classification criteria

# **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

# Inventory

Components	Canada (DSL)	Canada (NDSL)
Sodium Citrate, Dihydrate	Not Listed	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting
Sodium Citrate, Dihydrate	Not listed	Not listed

# **EU Classification**

<u>**R-phrase(s)**</u> not determined (not applicable)

# S -phrase(s)

none

Components	Classification	Concentration Limits:	Safety Phrases
Sodium Citrate, Dihydrate		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

# Indication of danger:

Not dangerous

# **16. OTHER INFORMATION**

# **16. OTHER INFORMATION**

2/25/2014

2/10/2016

Sonia Owen

Preparation Date: Revision Date: Prepared by:

**Disclaimer:** 

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet