# spectrum®



# SAFETY DATA SHEET

Preparation Date: 2/25/2014	<b>Revision Date: 11/15/2018</b>	Revision Number: G4
	1. IDENTIFICATION	
Product identifier		
Product code:	SO165	
Product Name:	SODIUM CITRATE, DIHYDRATE, GRANULAR, US	5P
Other means of identification		
Synonyms:	Trisodium citrate dihydrate 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, trisodiu	ım salt dihydrate
CAS #:	6132-04-3	in San, unyurate
RTECS #	TZ8595800 (Dihydrate)	
CI#:	GE8300000 (Anhydrous) Not available	
Recommended use of the chem	No information available.	
Recommended use: Uses advised against	No information available	
oses advised against		
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	Chemtrec 1-800-424-9300	
Contact Person:	Martin LaBenz (West Coast)	
Contact Person:	Ibad Tirmiz (East Coast)	
	2. HAZARDS IDENTIFICATION	

#### **Classification**

This chemical is not considered hazardous according to 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

Not classified

Hazards not otherwise classified (HNOC) Not Applicable

Other hazards Not available

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Components CAS-No. Weight %			Weight %
Sodium Citrate, Dihydrate		2-04-3	100
	4. FIRST AID	MEASURES	
First aid measures			
			l States can provide assistance if you o a poison specialist. Call
			ter removing all contaminated clothing and . Consult a physician if necessary.
	Flush eyes with water for 1 persist, call a physician.	5 minutes. Get medica	al attention if irritation occurs. If symptoms
	Move to fresh air. If not brea oxygen. Get medical attenti		espiration. If breathing is difficult, give
Ingestion:	Do not induce vomiting with unconscious person. Const		lever give anything by mouth to an ssary.
Most important symptoms and effect	s, both acute and delayed	<u>t</u>	
	May cause eye/skin irritatio May cause digestive (gastro May cause gastrointestinal	ointestinal) tract irritati	on
Indication of any immediate medical	attention and special trea	tment needed	
Notes to Physician:	Treat symptomatically.		
Protection of first-aiders First-Aid Providers: Avoid exposure to contaminated clothing and equipment a		gloves and other nece	essary protective clothing. Dispose of
	5. FIRE-FIGHTIN	IG MEASURES	
Extinguishing Media Suitable Extinguishing Media:		Carbon dioxide (CO2 oam.	2). Dry chemical. Water spray mist or
Unsuitable Extinguishing Media:		No information availa	able.
Specific hazards arising from	the chemical		
Hazardous Combustion Products:		Carbon Monoxide, C	arbon Dioxide. Sodium Oxides.
Specific hazards:		May be combustible	at high temperatures.
Special Protective Actions for	Firefighters_		
Specific Methods:	٢	No information availa	able.
Product code: SO165	Product name: SC DIHYDRATE, GR		2 / 10

# **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 and clothing. Avoid dust formation. Remove all sources of ignition.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas.
Methods and material for contai	nment and cleaning up
Methods for containment	Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Clean contaminated 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 vapors/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

#### **United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WEEL
Sodium Citrate, Dihydrate	6132-04-3	None	None	None	None

Canada

	Components	CAS-No.	Canada - Alberta	Canada - British	Canada - Ontario	Canada - Quebec
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				Columbia		
ſ	Sodium Citrate, Dihydrate	6132-04-3	None	None	None	None

# Australia and Mexico

Components	CAS-No.	Australia	Mexico
Sodium Citrate, Dihydrate	6132-04-3	None	None

#### 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 with side-shields.
Skin and body protection:	Long sleeved clothing Chemical resistant apron Gloves
Respiratory protection:	Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
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

<b>Physical state:</b>	<b>Appearance:</b>	<b>Color:</b>
Solid	Granular.	White.
<b>Odor:</b>	<b>Taste</b>	<b>Formula:</b>
Odorless.	Cool. Saline.	C6-H5-Na-3O7.2H2O
Molecular/Formula weight (g/mole):	Flammability:	Flashpoint (°C/°F):
294.1	No information available	No information available.
Flash Point Tested according to:	Autoignition Temperature (°C/°F):	Lower Explosion Limit (%):
Not available	No information available	No information available
<b>Upper Explosion Limit (%):</b> No information available	Melting point/range(°C/°F): 313.9 °C/572 °F	<b>Decomposition temperature(°C/°F):</b> Decomposes at red heat Becomes anhydrous at 150 °C
Boiling point/range(°C/°F):	Bulk density:	<b>Density (g/cm3):</b>
No information available	No information available	No information available
Specific gravity:		
Product code: SO165	Product name: SODIUM CITRATE,	4 / 10

DIHYDRATE, GRANULAR, USP

1.665

**Evaporation rate:** No information available

Odor threshold (ppm): No information available

**Miscibility:** No information available **pH:** No information available

Vapor density: No information available

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

**Solubility:** Freely soluble in water Insoluble in Alcohol Vapor pressure @ 20°C (kPa): No information available

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

Viscosity: No information available

# **10. STABILITY AND REACTIVITY**

Reactivity Reactive with oxidizing agents

e under recommended storage conditions.
rdous polymerization does not occur
. Avoid dust formation. Incompatible materials.
ng oxidizing agents
oon monoxide. Carbon dioxide. Sodium oxides.
t

 Other Information

 Corrosivity:
 No information available

# Special Remarks on Corrosivity: No information available

# **11. TOXICOLOGICAL INFORMATION**

## Information on likely routes of exposure

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

Acute Toxicity

#### **Component Information**

Sodium Citrate, Dihydrate		
CAS-No.	6132-04-3	
LD50/oral/rat = No	information available	
LD50/oral/mouse =	No information available	
LD50/dermal/rabbi	t = No information available	
LD50/dermal/rat =	No information available	
LC50/inhalation/ration/	t = No information available	
LC50/inhalation/me	ouse = No information available	
Other LD50 or LC5	<b>0information =</b> 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	o information available	
LC50/inhalation/rat VALUE-Vapor = No information av VALUE-Gas = No information av VALUE-Dust/Mist = No informat	ailable	
LC50/Inhalation/mouse VALUE-Vapor = No information available VALUE - Gas = No information available VALUE - Dust/Mist = No information available		
Symptoms		
Skin Contact:	May cause skin irritation.	
Eye Contact:	May cause eye irritation.	
Inhalation	May cause irritation of respiratory tract.	
Ingestion	Low hazard. May cause digestive (gastointestinal) tract irritation. May cause gastrointestinal disturbances. May cause alkalosis. It may depress the heart by decreasing the ionized calcium level of the blood. It may affect behavior/central nervous system (tetany, convulsions).	
Aspiration hazard	No information available.	
Delayed and immediate effects	as well as chronic effects from short and long-term exposure	
Chronic Toxicity	No information available.	
Sensitization:	No information available.	
Mutagenic Effects:	No information available	
Carcinogenic effects:	Not considered carcinogenic.	

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Sodium Citrate, Dihydrate	6132-04-3	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

IARC (International Agency for Research on Cancer)

S

NTP (National Toxicology Program)

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

Reproductive toxicity	No data is available			
Reproductive Effects:	No information available			
Developmental Effects:	No information available			
Teratogenic Effects:	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**

<b>Ecotoxicity</b>	
Ecotoxicity effects:	No data available.
Densistence and desmadels little	No information 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	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Sodium Citrate, Dihydrate	6132-04-3	None	None	None	None

# **14. TRANSPORT INFORMATION**

# DOT

UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Class	No information available
Packing group:	No information available
Emergency Response Guide	No information available
Number	
Marine Pollutant	No data available
DOT RQ (lbs):	No information available
Special Provisions	No Information available

Symbol(s): Description:

- TDG (Canada)
  - UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: Marine Pollutant Description:

No information 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 No information available

No information available No information available No information available No information available

Not Regulated

Not Regulated

Not Regulated

Not Regulated

#### ADR

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

# IMO / IMDG

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

#### RID

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

#### ICAO

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

#### IATA

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
ERG Code:	No information available
Special Provisions	No information available

# **15. REGULATORY INFORMATION**

# International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Sodium Citrate, Dihydrate	6132-04-3	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	CAS-No.	Carcinogen	Developmental Toxicity		Female Reproductive
				Toxicity	Toxicity:
Sodium Citrate, Dihydrate	6132-04-3	Not Listed	Not Listed	Not Listed	Not Listed

#### CERCLA/SARA

Components	CAS-No.	CERCLA - Hazardous Substances and their Reportable Quantities	Section 302 Extremely Hazardous Substances and TPQs	Section 302 Extremely Hazardous Substances and RQs	Section 313 - Chemical Category	Section 313 - Reporting de minimis
Sodium Citrate, Dihydrate	6132-04-3	None	None	None	None	None

#### U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	
Sodium Citrate, Dihydrate	6132-04-3	Not Applicable	Not Applicable

## Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component Sodium Citrate, Dihydrate 6132-04-3 (100) WHMIS 2015 Hazard Classification Combustible Dust - Category 1: May form combustible dust concentrations in air (factors such as combustibility and explosiveness of dusts including composition and shape and size of particles could cause substance to belong to 'Combustible dust' hazard class)

Canada Hazardous Products Regulation This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

#### Inventory

Components	CAS-No.		Canada (DSL)		Canada (NDSL)
Sodium Citrate, Dihydrate	6132-04-3	6132-04-3			Not Listed
Components		CAS-No.		CEPA	Schedule I - Toxic Substances
Sodium Citrate, Dihydrate		6132-04-3		Not list	ed
Components		CAS-No.		CEPA	- 2010 Greenhouse Gases Subject
				to Man	datory Reporting
Sodium Citrate, Dihydrate		6132-04-3		Not list	ed

## **EU Classification**

#### EU GHS - SV - CLP 1272/2008

Components	CAS-No.	EU GHS - SV - CLP (1272/2008)
Sodium Citrate, Dihydrate	6132-04-3	

#### EU - CLP (1272/2008)

# R-phrase(s)

not determined (not applicable)

# S -phrase(s)

none

Components	CAS-No.	 Concentration Limits:	Safety Phrases
Sodium Citrate, Dihydrate	6132-04-3	No information	

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

Indication of danger: Not dangerous

# **16. OTHER INFORMATION**

Preparation Date:	2/25/2014
Revision Date:	11/15/2018
Prepared by:	Sonia Owen
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