



# **SAFETY DATA SHEET**

Preparation Date: No data available Product identifier	Revision Date: 04/27/2015	Revision Number: G1
Product code:	S1500	DEACENT ACC
Product Name:	SODIUM THIOSULFATE, PENTAHYDRATE, CRYSTAL,	, REAGENT, ACS
Other means of identification		
Synonyms:	Sodium Hyposulfite, pentahydrate	
CAS #:	10102-17-7	
RTECS # CI#:	WE6660000 Not available	
Recommended use of the chemi	ical and restrictions on use	
Recommended use:	No information available.	
Uses advised against	No information available	
Supplier:	Spectrum Chemicals and Laboratory Products, Inc.	
	14422 South San Pedro St.	
	Gardena, CA 90248	
Onder Online At.	(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 hazard	dous by the 2012 OSHA Hazard Communication Standard (29 CFI	R 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

Product code: S1500

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %	Trade Secret
Sodium Thiosulfate, Pentahydrate	10102-17-7	100	*
10102-17-7			

#### 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 eye 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 effects, both acute and delayed

Symptoms Health injuries are not known or expected under normal use.

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** 

Product code: S1500

Suitable Extinguishing Media: The product is not flammable.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: No information available.

Specific hazards: When heated to decomposition it emits toxic fumes

**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

and clothing. Avoid dust formation. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Prevent product from entering

drains. Prevent entry into waterways, sewers, basements or confined areas.

## Methods and material for containment 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. 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. 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. Hygroscopic.

#### **Incompatible Materials:**

Acids. Oxidizing agents.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Control parameters**

#### National occupational exposure limits

#### United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	None	None	None	None
Sodium Thiosulfate, Pentahydrate -				
10102-17-7				

#### Canada

Product code: S1500

Components Alberta British Columbia Ontario Quebec
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	None	None	None	None
Sodium Thiosulfate, Pentahydrate -				
10102-17-7				

#### Australia and Mexico

Components	Australia	Mexico
Sodium Thiosulfate, Pentahydrate	None	None
10102-17-7		

# 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** 

Product code: S1500

**Eye protection:** Safety glasses. Safety glasses with side-shields.

**Skin and body protection:** Chemical resistant apron. Gloves. Long sleeved clothing.

**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

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Physical state: Appearance:

Solid. Crystals. Colorless. White.

Odor: Taste Molecular/Formula weight:

Saline. 248.19 Odorless.

Formula: Flash point (°C): Flashpoint (°C/°F): Na2S2O3•5H2O No data available No information available.

Flash Point Tested according to: **Lower Explosion Limit (%): Upper Explosion Limit (%):** 

Not available No information available No information available

**Autoignition Temperature (°C/°F):** Melting point/range(°C/°F): pH:

6.0-8.4 @ 5% solution No information available 48°C/118.4°F

Boiling point/range(°C/°F): Decomposition temperature(°C/°F): **Bulk density:** 

>100°C/212°F No information available No information available

Specific gravity: Density (g/cm3): Vapor pressure @ 20°C (kPa):

1.7-1.75 No information available No information available

VOC content (g/L): **Evaporation rate:** Vapor density: No information available No information available No information available

Partition coefficient Odor threshold (ppm): Viscosity:

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

No information available

Miscibility: Solubility:

No information available Easily soluble in hot water

Soluble in cold water

Solubility in Water: 79g/100mL @

4°C/39°F; 680g/L @ 20°C

# 10. STABILITY AND REACTIVITY

#### Reactivity

Reactive with acids

Reactive with oxidizing agents

It is a strong reducing agent and can react with oxidizers.

Reacts with acids to release sulfur dioxide.

Sodium Thiosulfate pentahydrate dissolves in its own water of hydation; it effloresces in warm dry air.

Sodium Thiosulfate pentahydrate loses water at 100°C.

It is incompatible with iodine, acids, lead, mercury, and silver salts (e.g. silver nitrate), halogens

**Chemical stability** 

Hygroscopic. Stable at normal conditions. Stability:

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

Heat. Ignition sources. Incompatible materials. Exposure to moisture. Conditions to avoid:

**Incompatible Materials:** Acids. Oxidizing agents.

Hazardous decomposition products: No information available

Other Information

Product code: S1500

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 Thiosulfate, Pentahydrate - 10102-17-7

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** 

**Skin Contact:** May cause skin irritation.

**Eye Contact:** May cause eye irritation.

**Inhalation** May cause respiratory tract irritation.

**Ingestion** Ingestion . Sodium Thiosulfate is an agent with a low order of toxicity. Ingestion of

large doses may cause gastrointestinal irritation disturbances with nausea, vomiting, abdominal cramping, diarrhea, metabolic acidosis, and hypernatremia. I may result in a cathartic (laxative, purging) effect. May also affect respiration (cyanosis, respiratory stimulation), cardiovascular(hypotension), behavior (ataxia, convulsions) Chronic

Potential Health Effects:.

Aspiration hazard No information available

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

**Chronic Toxicity** Prolonged or repeated skin contact may cause allergic reaction.

Sensitization: No information available

Mutagenic Effects: No information available

Carcinogenic effects: Not considered carcinogenic

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

Reproductive toxicity No data is available

Reproductive Effects:

Developmental Effects:
No information available
No information available
No information available

**Specific Target Organ Toxicity** 

STOT - single exposure STOT - repeated exposure

Target Organs:

No information available No information available No information available

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

Product code: S1500

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

Bioaccumulative potential: No information available

Mobility: No information available

#### 13. DISPOSAL CONSIDERATIONS

## 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 Thiosulfate, Pentahydrate	None	None	None	None

## 14. TRANSPORT INFORMATION

DOT

**UN-No:** Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
No information available
No information available

Packing Group: None

**ERG No:** No information available

Marine Pollutant No data available

**DOT RQ (lbs):** No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

ADR

**UN-No:** Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Classification Code:
Description:
No information available

**IMO / IMDG** 

Product code: S1500

**UN-No:** Not Regulated

**Proper Shipping Name:** No information available No information available **Hazard Class: Subsidiary Risk:** No information available Packing Group: No information available **Description:** No information available No information available **IMDG Page: Marine Pollutant** No information available MFAG: No information available **Maximum Quantity:** No information available

## 14. TRANSPORT INFORMATION

**RID** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Classification Code:
Description:
No information available
No information available
No information available
No information available

**ICAO** 

**UN-No:** Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

**IATA** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
No information available

## 15. REGULATORY INFORMATION

#### International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Sodium Thiosulfate, Pentahydrate	Not Listed	Not present	Present	Present (1)- 503	Present	Present	Not present

## **U.S. Regulations**

Sodium Thiosulfate, Pentahydrate

FDA - Food Additives Generally Recognized as Safe (GRAS): 21 CFR 184.1807

FDA - 21 CFR - Total Food Additives 184.1807

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		Male Reproductive Toxicity	Female Reproductive Toxicity:
			TOXICILY	l oxicity:
Sodium Thiosulfate, Pentahydrate	Not Listed	Not Listed	Not Listed	Not Listed

# CERCLA/SARA

Product code: S1500

·	Substances and their	Hazardous	Section 302 Extremely Hazardous Substances and RQs	Chemical Category	Section 313 - Reporting de minimis
Sodium Thiosulfate, Pentahydrate	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 Thiosulfate, Pentahydrate	Not Applicable	Not Applicable

#### Canada

#### WHMIS hazard class:

Non-controlled

#### Sodium Thiosulfate, Pentahydrate

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 Thiosulfate, Pentahydrate	Present	Not Listed

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory
		Reporting
Sodium Thiosulfate. Pentahydrate	Not listed	Not listed

## **EU Classification**

# R-phrase(s)

R-phrase(s)

# S -phrase(s)

none

Components	Classification	Concentration Limits:	Safety Phrases
Sodium Thiosulfate, Pentahydrate		No information	

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

# Indication of danger:

None.

Product code: S1500
Product name: SODIUM
THIOSULFATE, PENTAHYDRATE,
CRYSTAL, REAGENT, ACS

## 16. OTHER INFORMATION

**Revision Date:** 04/27/2015 **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

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**End of Safety Data Sheet**