# spectrum®



# SAFETY DATA SHEET

Preparation Date: 1/5/2015	Revision date 2/5/2019	Revision Number: G3
	1. IDENTIFICATION	
Product identifier		
Product code: Product Name:	S1405 SODIUM PHOSPHATE, DIBASIC, HEPTAHYI ACS	DRATE, CRYSTAL, REAGENT,
Other means of identification Synonyms:	Dibasic Sodium Phosphate heptahydrate; Disodium Hydrogen Phosphate, heptahydrate	
CAS #: RTECS # Cl#:	7782-85-6 WC4600000 Not available	
Recommended use of the chem Recommended use: Uses advised against	ical and restrictions on use No information available. No information available	
<u>Supplier:</u>	Spectrum Chemical Mfg. Corp 14422 South San Pedro St. Gardena, CA 90248 (310) 516-8000	
Order Online At: Emergency telephone number Contact Person: Contact Person:	https://www.spectrumchemical.com Chemtrec 1-800-424-9300 Tom Tyner (USA - West Coast) Ibad Tirmiz (USA - East Coast)	
	2. HAZARDS IDENTIFICATION	

#### **Classification**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Serious eye damage/eye irritation Category 2B

#### Label elements

# Warning

Hazard statements Causes eye irritation

Product name: SODIUM PHOSPHATE, DIBASIC, HEPTAHYDRATE, CRYSTAL, REAGENT, ACS

#### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

Causes mild skin irritation

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

If skin irritation occurs: Get medical advice/attention

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

Component	CAS No	Weight-%
Sodium Phosphate, Dibasic, Heptahyd	ate 7782-85-6	100
	4. FIRST AID MEASURES	
First aid measures		
ł	ational Capital Poison Center in the Unite ave a poison emergency and need to talk -800-222-1222.	
	lash off immediately with soap and plenty of w noes. Get medical attention if irritation develop	
-	lush eyes with water for 15 minutes. Get medi ersist, call a physician.	cal attention if irritation occurs. If symptoms
	love to fresh air. If breathing is difficult, give ox xygen. Obtain medical attention.	xygen. In case of shortness of breath, give
	o not induce vomiting without medical advice. nconscious person. Consult a physician if nec	
Most important symptoms and effects	, both acute and delayed	

 Symptoms
 May cause eye/skin irritation

 Mild skin irritation
 Mild skin irritation

 Mild eye irritation
 May cause digestive (gastrointestinal) tract irritation

 May cause purging
 May cause purging

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: S1405

Suitable Extinguishing Media:	The product is not flammable. If it is involved in a fire, extinguish the fire using an agent suitable for the type of surrounding fire.
Unsuitable Extinguishing Media:	No information available.
Specific hazards arising from the chemical	
Hazardous combustion products	No information available.
Specific hazards	No information available.
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

surface thoroughly.

Personal Precautions:	Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.	
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let this chemical enter the environment. Do not let product enter drains.	
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	

# 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. Do not ingest. Do not breathe dust. Keep away from heat and sources of ignition. 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.

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Incompatible Materials: Oxidizing agents Acids Bases

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

#### National occupational exposure limits

#### **United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Sodium Phosphate,	7782-85-6	None	None	None	None
Dibasic, Heptahydrate					

#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Sodium Phosphate, Dibasic, Heptahydrate	7782-85-6	None	None	None	None

#### **Australia and Mexico**

Component	CAS No	Australia	Mexico
Sodium Phosphate, Dibasic, Heptahydrate	7782-85-6	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:	Goggles or Safety glasses with side-shields.	
Skin and body protection:	Long sleeved clothing Chemical resistant apron Gloves	
Respiratory protection:	Effective dust mask. or. Wear respirator with dust filter. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation high concentration of dust (dust clouds), inadequate ventilation, development respiratory tract irritation), and engineering controls are not feasible. Be sure use an approved/certified respirator or equivalent.	on of It of
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and	
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immediately after handling the product When using, do not eat, drink or smoke.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Appearance:
Solid	Granular. Crystals. Crysta
<b>Odor:</b>	Taste
Odorless.	No information available.
Molecular/Formula weight (g/mole): 268.07	Flammability (solid, gas) no data available
Flash Point Tested according to:	Autoignition Temperatur
Not applicable	No information available
Upper Explosion Limit (%):	Melting point/range(°C/°l
No information available	48 °C/119 °F
Boiling point/range(°C/°F):	Bulk density:
No information available	No information available
Specific gravity:	<b>pH</b>
No information available	No information available
<b>Evaporation rate:</b>	Vapor density:
No information available	No information available
Odor threshold (ppm): No information available	Partition coefficient (n-octanol/water): No information available
<b>Miscibility:</b> No information available	Solubility: Easily soluble in water Solubility in Water: 104 g/ deg. C; 11.8 g/100 g @ 25

alline.

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re (°C/°F):

°**F)**:

1/100 ml @ 40 5 deg. C

Color: White.

Formula Na2HPO4.7H2O

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

Lower Explosion Limit (%): No information available

Decomposition temperature(°C/°F): No information available

Density (g/cm3): 1.679-1.7 @ 25 deg. C

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

VOC content (g/L): No information available

Viscosity: No information available

# **10. STABILITY AND REACTIVITY**

#### Reactivity

Incompatible with magnesium, alkaloids, antipyrine, chloral hydrate, lead acetate, pyrogallol, resorcinol, strong mineral acids, strong organic acids

# **Chemical stability**

Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	Hazardous polymerization does not occur
Conditions to avoid:	Heat. Loses 5 H2O @ 48 deg. C. Incompatible materials.
Incompatible Materials:	Oxidizing agents Acids Bases
Hazardous decomposition products:	No information available.
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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 Phosphate, Dibasic, Heptahydrate
CAS No 7782-85-6
LD50/oral/rat = 12930 mg/kg (RTECS)
LD50/oral/mouse = No information available
LD50/dermal/rabbit = No information available
LD50/dermal/rat = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available
Product Information
LD50/oral/rat =
Value - Acute Tox = 12930 mg/kg
LD50/oral/mouse =
Value - Acute Tox Oral = No information available
value - Acute Tox Oral = No information available
LD50/dermal/rabbit
Value - Acute Tox = 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
<u>Symptoms</u>

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Skin Contact:	May cause skin irritation. Mild skin irritation.
Eye Contact:	Causes eye irritation. Mild eye irritation.
Inhalation	May cause irritation of respiratory tract.
Ingestion	May cause irritation of the digestive tract and may cause purging. It is slowly absorbed. Expected to be a low ingestion hazard for usual industrial handling. Ingestion of large doses may affect behavior/central nervous system (tetany). However, if a significant amount of phosphate is absorbed, hypophosphatemia will occur. Severe hypophosphatemia may result in hypocalcemia and tetany. Cardiovasular, respiratory, neurologic, and musculoskeletal effects may occur secondary to hypernatremia, hypophosphatemia, and hypocalcemia.
Aspiration hazard	No information available.
Delayed and immediate effects	as well as chronic effects from short and long-term exposure
Chronic Toxicity	Prolonged skin contact may cause skin irritation and/or dermatitis.
Sensitization:	No information available.
Mutagenic Effects:	No information available

Carcinogenic effects:

Not considered carcinogenic.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Sodium Phosphate, Dibasic, Heptahydrate	7782-85-6	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)

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**

# **Ecotoxicity**

Product code: S1405

Ecotoxicity effects:	No data available.
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available.
Mobility in soil Other adverse effects	No information available 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

Component	CAS No	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Sodium Phosphate, Dibasic, Heptahydrate	7782-85-6	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):	No information available
Description:	No information available
TDG (Canada)	
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
Marine Pollutant	No Information available
Description:	No information available
ADR	
UN Number	Not regulated
Proper Shipping Name:	No information available

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Transport hazard class(es) Packing group Subsidiary Risk:	No information available No information available No information available
IMDG UN-No: Proper Shipping Name: Hazard Class: Subsidiary Risk: Packing Group: Marine Pollutant	Not Regulated No information available No information available No information available No information available No information available
RID UN Number Proper Shipping Name: Transport hazard class(es) Subsidiary Risk: Packing group	Not Regulated No information available No information available No information available No information available
ICAO (air) UN-No: Proper Shipping Name: Hazard Class Subsidiary Risk: Packing Group:	Not Regulated No information available No information available No information available No information available
IATA UN Number Proper Shipping Name: Transport hazard class(es) Subsidiary Risk: Packing group Precautionary Statements - Response Special Provisions	Not Regulated No information available No information available No information available IF exposed or concerned No information available

# **15. REGULATORY INFORMATION**

## **International Inventories**

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia AICS	EINECS-No.
Sodium Phosphate, Dibasic, Heptahydrate	7782-85-6	Exempt from listing since it is a hydrate. However the anhydrous form (CAS no. 7558-79-4) is listed (ACTIVE)on the TSCA 8(b) Inventory.		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)

Component	CAS No	Carcinogen		Reproductive	Female Reproductive
					Toxicity:
Sodium Phosphate, Dibasic, Heptahydrate	7782-85-6	Not Listed	Not Listed	Not Listed	Not Listed

#### CERCLA/SARA

Component	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 Phosphate, Dibasic, Heptahydrate	7782-85-6	None	None	None	None	None

#### U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Sodium Phosphate, Dibasic, Heptahydrate	7782-85-6	Not Applicable	Not Applicable

#### Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification	The WHMIS 2015 classification of this product has not been validated or reviewed yet.
Information:	

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

#### DSL/NDSL

Component	CAS No	Canada (DSL)	Canada (NDSL)	
Sodium Phosphate, Dibasic,	7782-85-6	Not Listed	Not Listed	
Heptahvdrate				

Component	CAS No	CEPA Schedule I - Toxic Substances
Sodium Phosphate, Dibasic, Heptahydrate	7782-85-6	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Sodium Phosphate, Dibasic, Heptahydrate	7782-85-6	Not listed

#### **EU Classification**

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

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Sodium Phosphate, Dibasic, Heptahydrate	7782-85-6	

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

#### R-phrase(s)

R36 - Irritating to eyes R38 - Irritating to skin

#### S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S37 - Wear suitable gloves

Component	CAS No		Concentration Limits:	Safety Phrases
Sodium Phosphate,	7782-85-6		No information	
Dibasic, Heptahydrate				
The une dust is share if a diverse and an as with Anney VI to Directive C7/540/550				

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

#### Indication of danger:

Xi - Irritant

# **16. OTHER INFORMATION**

Preparation Date:	1/5/2015
Revision date	2/5/2019
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

Product name: SODIUM PHOSPHATE, DIBASIC, HEPTAHYDRATE, CRYSTAL, REAGENT, ACS