# **spectrum**<sup>®</sup>



# SAFETY DATA SHEET

Preparation Date: 09/07/2017	Revision date 5/2/2019	Revision Number: G2		
	1. IDENTIFICATION			
Product identifier				
Product code: Product Name:	S1420 SODIUM PYROPHOSPHATE, DECAHYDRAT	E, CRYSTAL, REAGENT, ACS		
<u>Other means of identification</u> Synonyms:	Pyrophosphoric acid, tetrasodium salt, decahyd Sodium pyrophosphate decahydrate Diphosphoric acid, tetrasodium salt, decahydra Tetrasodium pyrophosphate, decahydrate	ate		
CAS #: RTECS # CI#:	Sodium pyrophosphate tetrabasic decahydrate 13472-36-1 Not available Not available			
Recommended use of the chem Recommended use: Uses advised against	ical and restrictions on use 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: 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)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3

### Label elements

# Warning

Hazard statements Causes serious eye irritation Causes skin irritation May cause respiratory irritation



Hazards not otherwise classified (HNOC) Not Applicable

# Other hazards

Not available

# **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear protective gloves Wear eye/face protection

### **Precautionary Statements - Response**

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 attention.

IF ON SKIN: Wash with plenty of water

If skin irritation occurs: Get medical attention

Take off contaminated clothing and wash it before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

### **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed Store locked up

# **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

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

Component	CAS No	Weight-%
Sodium Pyrophosphate, Decahydrate	13472-36-1	100

# 4. FIRST AID MEASURES

First aid measures

General Advice:	National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.

Product code: S1420

**Product name:** SODIUM PYROPHOSPHATE, DECAHYDRATE, CRYSTAL, REAGENT, ACS

Eye Contact:	Flush eyes with water for	15 minutes. Get medical attention.		
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 w unconscious person. Ob	vithout medical advice. Never give anything by mouth to an tain medical attention.		
Most important symptoms and effe	cts, both acute and delay	<u>ved</u>		
Symptoms	Causes serious eye irritation Inflammation of the eye is characterized by redness, watering and itching Causes skin irritation Irritating to respiratory system			
Indication of any immediate medica	I attention and special tr	reatment 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-FIGHT	ING MEASURES		
Extinguishing Media 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 product	S	If it is involved in a fire the following can be released:. Oxides of phosphorus. Sodium oxides.		
Specific hazards		No information available.		
Special Protective Actions for	r Firefighters			
Specific Methods:		No information available		
Special Protective Equipment for	or 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. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment.		
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter 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	Use appropriate tools to put the spilled solid in a suitable waste disposal container. 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. Do not breathe dust. Do not ingest. 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:

Oxidizing agents

Acids

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

# National occupational exposure limits

# United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Sodium Pyrophosphate,	13472-36-1	None	None	None	None
Decahydrate					

# Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Sodium Pyrophosphate, Decahydrate	13472-36-1	None	None	None	None

# **Australia and Mexico**

Component	CAS No	Australia	Mexico
Sodium Pyrophosphate, Decahydrate	13472-36-1	None	None

# Appropriate engineering controls

# Engineering measures to reduce exposure:

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. or Goggles
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 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. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product

# 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	<b>Appearance:</b>	Color:
Solid	Crystals.	Colorless.
<b>Odor:</b>	<b>Taste</b>	<b>Formula</b>
Odorless.	Alkaline.	Na4P2O7-10H2O
Molecular/Formula weight (g/mole)	: Flammability (solid, gas)	Flashpoint (°C/°F):
446.06	Non-flammable	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>	Melting point/range(°C/°F):	Decomposition temperature(°C/°F):
No information available	79.5°C/ 175.1°F	No information available
Boiling point/range(°C/°F):	Bulk density:	<b>Density (g/cm3):</b>
No information available	No information available	No information available
<b>Specific gravity:</b>	<b>pH</b>	Vapor pressure @ 20°C (kPa):
1.82	10.2 (1% solution at 25°C)	No information available
Product code: S1420	<b>Product name:</b> SODIUM PYROPHOSPHATE, DECAHYDRATE	<b>Page</b> 5 / 12

CRYSTAL, REAGENT, ACS

**Evaporation rate:** No information available

Odor threshold (ppm): No information available

Miscibility: No information available Vapor density: No information available

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

**Solubility:** Soluble in Water Insoluble in Alcohol Solublity in Water: 3.16 g/100 ml @ 0°C; 6.23 g/ml @ 20°C.; 8.14 g/100 ml @ 25°C; 21.83 g/100 ml @ 60°C.; 30.04 g/100 ml @ 80°C

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

Viscosity: No information available

# **10. STABILITY AND REACTIVITY**

Reactivity Reactive with oxidizing agents Reactive with acids

Chemical stability	
Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	_Hazardous polymerization does not occur
Conditions to avoid:	Incompatible materials. Avoid dust formation.
Incompatible Materials:	Oxidizing agents Acids
Hazardous decomposition products:	Oxides of potassium. Sodium oxides.
Other Information Corrosivity:	Non-corrosive in the presence of glass

Special Remarks on Corrosivity: No information available

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

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

# Acute Toxicity

# **Component Information**

Sodium Pyrophosphate, Decahydrate

CAS No

13472-36-1

LD50/oral/rat = No information available LD50/oral/mouse = No information available

**Product name:** SODIUM PYROPHOSPHATE, DECAHYDRATE, CRYSTAL, REAGENT, ACS 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 = 4000 mg/kg oral LD50 Rat (for Sodium Pyrophosphate anhydrous CAS no. 7722-88-5) 2980 mg/kg oral LD50 Mouse (for Sodium Pyrophosphate anhydrous CAS no. 7722-88-5)

**Product Information** 

LD50/oral/rat = Value - Acute Tox = No information available

LD50/oral/mouse = 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

Symptoms

Skin Contact:	Causes skin irritation. Mildly to moderately irritating to the skin.		
Eye Contact:	Causes serious eye irritation. Moderately irritating to the eyes. Symptoms may include stinging, tearing, redness.		,
Inhalation	May cause respiratory tract irritation. Symptoms may include chest tightness, coughing. May cause dyspnea (difficulty breathing or shortness of breath).		
Ingestion	Causes gastrointestinal (digestive) tract irritation with nausea, vomiting, and diarrhea. Phosphates are slowly and incompletely absorbed when ingested, and seldom result in systemic effects. Symptoms may include vomiting, diarrhea, lethargy, blood chemistry effects (metabolic acidosis, hypcalcemia), heart disturbances, and central nervous system effects. The toxicity of phosphates is due to their ability to sequester calcium.		
Aspiration hazard	No information available.		
Delayed and immediate effects	as well as chronic effects from short and long-term exposure		
Chronic Toxicity	Chronic ingestion or inhalation may induce systemic phosphate poisoning. Liver damage, kidney damage, jaw/tooth abnormalities, blood disorders and cardiovascular effects may results. Prolonged or repeated skin contact may cause		
Product code: S1420	<b>Product name:</b> SODIUM PYROPHOSPHATE, DECAHYDRATE, CRYSTAL, REAGENT, ACS	Page 7	/ 12

drying or chapping of skin. Medical Conditions Aggravated by Exposure: Persons with pre-existing skin disorders or eye problems, jaw/tooth abnormalities, or impaired liver, kidney or respiratory function may be more susceptible to the effects of this substance.

Sensitization:	No information available.
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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 Pyrophosphate, Decahydrate	13472-36-1	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:	Kidneys. Liver.

# **12. ECOLOGICAL INFORMATION**

# **Ecotoxicity**

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

Product code: S1420

# 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 Pyrophosphate,	13472-36-1	None	None	None	None
Decahydrate					

# **14. TRANSPORT INFORMATION**

# DOT

UN-No:	Not Dogulated
	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)**

DO (Callada)	
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
Transport hazard class(es)	No information available
Packing group	No information available
Subsidiary Risk:	No information available

Not Regulated

No information available

No information available No information available

# 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
Marine Pollutant	No information available

# RID

UN Number Proper Shipping Name: Transport hazard class(es) Subsidiary Risk:

Product code: S1420

**Product name:** SODIUM PYROPHOSPHATE, DECAHYDRATE, CRYSTAL, REAGENT, ACS

No information available
Not Regulated
No information available
Not Regulated
No information available
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 Pyrophosphate, Decahydrate	13472-36-1	Not Listed	Not present	Present	Present (1)-497	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	Developmental Toxicity	Male	Female
					Reproductive Toxicity:
				TOXICILY	TOXICILY.
Sodium Pyrophosphate, Decahydrate	13472-36-1	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 Pyrophosphate, Decahydrate	13472-36-1	None	None	None	None	None

U.S. TSCA

Product code: S1420

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	
Sodium Pyrophosphate, Decahydrate	13472-36-1	Not Applicable	Not Applicable

# Canada

### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component Sodium Pyrophosphate, Decahydrate 13472-36-1 (100) WHMIS 2015 Hazard Classification Serious eye damage/eye irritation - Category 2; Causes serious eye irritation (H319)

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 Pyrophosphate,	13472-36-1	Not Listed	Not Listed
Decahydrate			

Component	CAS No	CEPA Schedule I - Toxic Substances
Sodium Pyrophosphate, Decahydrate	13472-36-1	Not listed
Component		CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting
Sodium Pyrophosphate, Decahydrate	13472-36-1	Not listed

# **EU Classification**

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

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Sodium Pyrophosphate, Decahydrate	13472-36-1	

# EU - CLP (1272/2008)

# R-phrase(s)

R36/37/38 - Irritating to eyes, respiratory system and skin

# S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Component	CAS No	 Concentration Limits:	Safety Phrases
Sodium Pyrophosphate, Decahydrate	13472-36-1	No information	

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

# Indication of danger:

Product code: S1420

# Xi - Irritant



# **16. OTHER INFORMATION**

Preparation Date:	09/07/2017
Revision date	5/2/2019
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