



# SAFETY DATA SHEET

Preparation Date: 09/07/2017 Revision date 5/2/2019 Revision Number: G2

1. IDENTIFICATION

**Product identifier** 

Product code: S1420

Product Name: SODIUM PYROPHOSPHATE, DECAHYDRATE, CRYSTAL, REAGENT, ACS

Other means of identification

**Synonyms:** Pyrophosphoric acid, tetrasodium salt, decahydrate

Sodium pyrophosphate decahydrate

Diphosphoric acid, tetrasodium salt, decahydrate Tetrasodium pyrophosphate, decahydrate Sodium pyrophosphate tetrabasic decahydrate

CAS #: 13472-36-1
RTECS # Not available
CI#: Not available

Recommended use of the chemical 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 numberChemtrec 1-800-424-9300Contact Person:Tom Tyner (USA - West Coast)Contact Person: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

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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.

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 without medical advice. Never give anything by mouth to an

unconscious person. Obtain medical attention.

Most important symptoms and effects, both acute and delayed

**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 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: S1420

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 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 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. 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**

Product code: S1420

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

Physical state:Appearance:Color:SolidCrystals.Colorless.

Odor: Taste Formula

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

Upper Explosion Limit (%): 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: Density (g/cm3):

Specific gravity: pH Vapor pressure @ 20°C (kPa):

1.82 10.2 (1% solution at 25°C) No information available

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

Odor threshold (ppm): Partition coefficient Viscosity:

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

No information available

Miscibility: Solubility:
No information available 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

# 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 code: S1420 Product name: SODIUM

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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

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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.

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 STOT - repeated exposure

Target Organs:

No information available. No information available.

Kidneys. Liver.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

Mobility in soilNo information availableOther adverse effectsNo information available.

# 13. DISPOSAL CONSIDERATIONS

**Disposal Methods** 

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### 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, Decahydrate	13472-36-1	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):

Special Provisions

Symbol(s):

No information available

No information available

No information available

No information available

TDG (Canada)

UN-No: Not Regulated

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

ADR

UN Number Not regulated

Proper Shipping Name:
Transport hazard class(es)
Packing group
Subsidiary Risk:

No information available
No information available
No information available

**IMDG** 

**UN-No:** Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

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

**RID** 

Product code: \$1420

UN Number Not Regulated

Proper Shipping Name: No information available Transport hazard class(es) No information available Subsidiary Risk: No information available

Product name: SODIUM PYROPHOSPHATE, DECAHYDRATE, CRYSTAL, REAGENT, ACS Packing group No information available

ICAO (air)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

**IATA** 

UN Number Not Regulated

Proper Shipping Name:
Transport hazard class(es)
Subsidiary Risk:
Packing group
No information available

Response

Special Provisions No information available

# 15. REGULATORY INFORMATION

#### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	1.1.	Japan ENCS	China IECSC		EINECS-No.
				(PICCS)			(AICS)	
Sodium	13472-36-1	Not Listed	Not present	Present	Present	Present	Present	Not present
Pyrophosphate,					(1)-497			•
Decahydrate								

# **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	<b>Developmental Toxicity</b>	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
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

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

Component		· · · · · · · · · · · · · · · · · · ·	TSCA 8(d) -Health and Safety Reporting
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	Classification	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: \$1420 Product name: SODIUM PYROPHOSPHATE, DECAHYDRATE, CRYSTAL, REAGENT, ACS

### 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** 

Product code: S1420