

SAFETY DATA SHEET

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Preparation Date: 01/01/2019

Revision Date: N/A

Revision Number: N/A

1. IDENTIFICATION

Product identifier	
Product code:	C7671
Product Name:	SODIUM PHOSPHATE, MONOBASIC, DIHYDRATE
Other means of identification	
Synonyms: CAS #:	Monosodium dihydrogen phosphate dihydrate Monosodium phosphate dihydrate Phosphoric acid, monosodium salt, dihydrate 13472-35-0
RTECS #	WA1900500
CI#:	Not available
Recommended use of the chem	nical and restrictions on use
Recommended use: Uses advised against	No information available. No information available
Supplier:	
	Dawn Scientific Inc
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2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous by 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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component		CAS No	Weight-%		
Sodium Phosphate, Monobasic, Dihyd	rate	13472-35-0	100		
		4. FIRST AID MEASURES			
First aid measures					
H	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.				
		immediately with soap and plenty of w et medical attention if irritation develop	ater removing all contaminated clothing and s.		
		es with water for 15 minutes. Get medic all a physician.	cal attention if irritation occurs. If symptoms		
	Move to fresh air. If breathing is difficult, give oxygen. In case of shortness of breath, give oxygen. Obtain medical attention.				
	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	s, both a	acute and delayed			
	May cause eye/skin irritation Causes digestive (gastrointestinal) tract irritation Vomiting Abdominal pain May cause diarrhea				
Indication of any immediate medical a	ttentior	n and special treatment needed			
Notes to Physician:	reat syn	nptomatically.			
Protection of first-aiders First-Aid Providers: Avoid exposure to b contaminated clothing and equipment as	lood or b bio-haz	body fluids. Wear gloves and other neo cardous waste.	cessary protective clothing. Dispose of		
	5.	FIRE-FIGHTING MEASURES			
<u>Extinguishing Media</u> Suitable Extinguishing Media:			lammable. If it is involved in a fire, ising an agent suitable for the type of		
Unsuitable Extinguishing Media:		No information avail	ilable.		
Specific hazards arising from t	he che	emical			
Hazardous combustion products		No information avai	ilable.		

Specific hazards

No information available.

Special Protective Actions for Firefighters

Specific Methods:

Special Protective Equipment for Firefighters:

No information available

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

drains.

Personal Precautions:Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal
protective equipment.Environmental precautionsPrevent further leakage or spillage if safe to do so. Prevent product from entering

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. 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.

Incompatible Materials: Acids Bases Strong oxidizing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
Sodium Phosphate,	13472-35-0	None	None	None	None
Monobasic, Dihydrate					

Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec	
Sodium Phosphate, Monobasic, Dihydrate	13472-35-0	None	None	None	None	

Australia and Mexico

Component	CAS No	Australia	Mexico
Sodium Phosphate, Monobasic, Dihydrate	13472-35-0	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 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

Physical state: Solid	Appearance: Crystals. Crystalline. Crystalline powder.	Color: White.
Odor:	Taste	Formula
Odorless.	No information available.	NaH2PO4.2H2O
Molecular/Formula weight (g/mole):	Flammability (solid, gas)	Flashpoint (°C/°F):
156.01	no data available	No information available

Flash Point Tested according to: Not applicable

Upper Explosion Limit (%): No information available

Boiling point/range(°C/°F): No information available

Specific gravity: No information available

Evaporation rate: No information available

Odor threshold (ppm): No information available

Miscibility: No information available Autoignition Temperature (°C/°F): No information available

Melting point/range(°C/°F): No information available

Bulk density: No information available

pH No information available

Vapor density: No information available

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

Solubility: Very soluble in water Solubility in water: 94 g/100 g @ 25 °C Insoluble in Ethanol

10. STABILITY AND REACTIVITY

<u>Reactivity</u> Reactive with acids Reacts with strong bases Reactive with oxidizing agents

Chemical stability

Corrosivity:

Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	_Hazardous polymerization does not occur
Conditions to avoid:	Heat. Incompatible materials.
Incompatible Materials:	Acids Bases Strong oxidizing agents
Hazardous decomposition products:	Sodium oxides. Phosphorus oxides.
Other Information	

No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure:

Lower Explosion Limit (%): No information available

Decomposition temperature(°C/°F): 60 °C/140 °F

Density (g/cm3): 1.9-2

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

VOC content (g/L): No information available

Viscosity: No information available Ingestion. Inhalation.

Acute Toxicity

Component Information

Sodium Phosphate, Monobasic, Dih				
CAS No LD50/oral/rat = No informat	13472-35-0			
LD50/oral/mouse = No info				
LD50/dermal/rabbit = No in				
LD50/dermal/rat = No inform				
LC50/inhalation/rat = No in				
LC50/inhalation/mouse = N				
Other LD50 or LC50informa	ation = >5008 mg/kg intraperitoneal LD50 Mouse			
Product Information				
LD50/oral/rat =	formation quailable			
Value - Acute Toxicity = No inf				
LD50/oral/mouse =				
Value - Acute Tox = No information	ation available			
LD50/dermal/rabbit				
Value - Acute Toxicity = No inf	ormation available			
LD50/dermal/rat				
VALUE - Acute Tox = No inform	nation available			
LC50/inhalation/rat VALUE-Vapor = No information VALUE-Gas = No information a VALUE-Dust/Mist = No information a	vailable			
LC50/Inhalation/mouse				
VALUE-Vapor = No information	ı available			
VALUE - Gas = No information	available			
VALUE - Dust/Mist = No inform	nation available			
Symptoms_				
<u>oymptoms</u>				
Skin Contact:	May cause skin irritation.			
Eye Contact:	May cause eye irritation.			
Inhalation	May cause irritation of respiratory tract.			
Ingestion	It is considered a low hazard for usual industrial handling because phosphates are slowly and incompletely absorbed in the intestinal tract. The most frequently observed effect is gastrointestinal irritation with abdominal pain and cramping, vomiting, diarrhea. If ingestion of large doses occurs and if a significant amount of phosphate is absorbed, severe electrolyte (mineral) disturbances (imbalances) can occur resulting in hyperphosphatemia, hypocalcemia, hyperkalemia, hypernatremia and hypomagnesemia may occur. Symptoms may include			

anorexia, increased thirst (dehydration), metabolic acidosis, decrease in the amount of urine or in frequency of urination, renal failure, troubled breathing and shortness of breath, tetany/carpopedal spasms, seizures/convulsions, tremor, dizziness, fatigue, lethargy, confusion, changes in mood such as anxiety, depression or irritability, weakness, muscle cramps, numbness or tingling, pain around the mouth or lips, hands or feet, weakness in the hands or feet, bradycardia (slow heartbeat) or tachycardia (fast heartbeat), dysrhythmias (cardiac arrhythmias), hypotension, cardiac arrest, hyperpyrexia.

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.

Component	CAS No	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Sodium Phosphate, Monobasic, Dihydrate	13472-35-0	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: Developmental Effects: Teratogenic Effects:	No information available No information available 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

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, Monobasic, Dihydrate	13472-35-0	None	None	None	None

14. TRANSPORT INFORMATION

DOT

BOI	
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
TDC (Canada)	
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
Transport hazard class(es)	No information available
Packing group	No information available
Subsidiary Risk:	No information available
	Not Dogulated
UN-No: Dropor Shinning Nome:	Not Regulated No information available
Proper Shipping Name:	NO INFORMATION AVAILABLE

Hazard Class: Subsidiary Risk: Packing Group: Marine Pollutant	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
ΙΑΤΑ	
UN Number Proper Shipping Name: Transport hazard class(es) Subsidiary Risk: Packing group Precautionary Statements - Response	Not Regulated No information available No information available No information available No information available No information available
Special Provisions	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, Monobasic, Dihydrate	13472-35-0	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.

<u>Chemicals Known to the State of California to Cause Cancer:</u> This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<u>Chemicals Known to the State of California to Cause Reproductive Toxicity:</u> 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	Toxicity:
Sodium Phosphate, Monobasic, Dihydrate	13472-35-0	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Γ	Component	CAS No	CERCLA -	Section 302	Section 302	Section 313 -	Section 313 -
			Hazardous	Extremely	Extremely	Chemical Category	Reporting
			Substances and	Hazardous	Hazardous		de minimis

		their Reportable Quantities	Substances and TPQs	Substances and RQs		
Sodium Phosphate, Monobasic,	13472-35-0	None	None	None	None	None
Dihydrate						

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, Monobasic, Dihydrate	13472-35-0	Not Applicable	Not Applicable

Canada

WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Not a dangerous product according to HPR classification criteria. 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, Monobasic, Dihydrate	13472-35-0	Not Listed	Not Listed
Component	CAS No		Schedule I - Toxic Substances

component	OAO NO	
Sodium Phosphate, Monobasic, Dihydrate	13472-35-0	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Sodium Phosphate, Monobasic, Dihydrate	13472-35-0	Not listed

EU Classification

EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
Sodium Phosphate, Monobasic, Dihydrate	13472-35-0	

EU - CLP (1272/2008)

<u>R-phrase(s)</u>

not determined (not applicable)

S -phrase(s)

none

Component	CAS No	 Concentration Limits:	Safety Phrases
Sodium Phosphate,	13472-35-0	No information	

Monobasic, Dihydrate

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

Indication of danger: None

16. OTHER INFORMATION

Preparation Date:	01/01/2019
Revision date	N/A
Prepared by:	-

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. Dawn Scientific Inc Chemicals & Laboratory Products, 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, Dawn Scientific Inc assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet