

Safety Data Sheet

**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking****1.1 Product identifier**

Product Name	• Sodium Hexametaphosphate
Synonyms	• Graham's Salt; Sodium Polymetaphosphate; Sodium Polyphosphates Glassy; Vitrafos
CAS Number	• 68915-31-1
SDS Number/Grade	• 1
EC Number	• 272-808-3
REACH Pre-Registration Number	• 05-2118797653-24-0000

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s)	• Water Treatment. Food: Sequestrant and preservative adjunct for use in dairy, beverage, and miscellaneous foods; Sequestrant for alkali metals, corrosion control, scale control, softening, red and black water control. Petroleum: Deflocculating agent in oil well drilling muds. Textile: Sequestering agent used in processing of various goods. Refractory: Binding Agent.
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1.3 Details of the supplier of the safety data sheet

Manufacturer	• Innophos 259 Prospect Plains Rd. Bldg A Cranbury, NJ 08512-3706 United States
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Telephone (Technical) • 609-495-2495

1.4 Emergency telephone number

Manufacturer	• 800-424-9300 - Chemtrec - within USA and Canada
Manufacturer	• +1 703-527-3887 - Chemtrec - outside USA and Canada (collect calls accepted)
Manufacturer	• 615-386-7816 - Innophos Emergency Communication Team (ECT)

Section 2: Hazards Identification**EU/EEC**

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP	• Not classified
DSD/DPD	• Not classified

2.2 Label Elements

CLP**Hazard statements** • No label element(s) required**DSD/DPD****Risk phrases** • No label element(s) required**2.3 Other Hazards****CLP** • According to Regulation (EC) No. 1272/2008 (CLP) this material is not considered hazardous.**DSD/DPD** • This product is not considered dangerous under the European Directive 67/548/EEC**United States (US)**

According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture**OSHA HCS 2012** • Not classified**2.2 Label elements****OSHA HCS 2012**
Hazard statements • No label element(s) required**2.3 Other hazards****OSHA HCS 2012** • This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard.**Canada**

According to WHMIS

2.1 Classification of the substance or mixture**WHMIS** • Not classified**2.2 Label elements****WHMIS** • No label element(s) required.**2.3 Other hazards****WHMIS** • In Canada, the product mentioned above is not considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).**Section 3 - Composition/Information on Ingredients****3.1 Substances**

Composition					
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Polyphosphoric acids, sodium salts	CAS:68915-31-1 EC Number:272-808-3	100%	Ingestion/Oral-Rat LD50 • 3053 mg/kg	EU DSD/DPD: Not classified EU CLP: Not classified OSHA HCS 2012: Not classified	NDA

3.2 Mixtures

- Material does not meet the criteria of a mixture in accordance with Regulation (EC) No 1272/2008.

Section 4 - First Aid Measures

4.1 Description of first aid measures

Inhalation

- Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. If signs/symptoms continue, get medical attention.

Skin

- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Remove clothing and wash thoroughly before use.

Eye

- In case of contact with substance, immediately flush eyes with running water for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

Ingestion

- If victim is conscious and alert, give 2-3 glasses of water to drink. Induce vomiting by touching back of throat with a finger. Do not give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

4.4 Other information

- Call 911 or emergency medical service. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media • Not combustible. Use extinguishing media suitable for surrounding fire.

Unsuitable Extinguishing Media • None known.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • Non-combustible.

Hazardous Combustion Products • None known.

5.3 Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.
LARGE FIRES: Move containers from fire area if you can do it without risk.
LARGE FIRES: Do not scatter spilled material with high pressure water streams.
LARGE FIRES: Dike fire-control water for later disposal.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal Precautions**
 - Do not touch or walk through spilled material.
- Emergency Procedures**
 - Keep unauthorized personnel away.

6.2 Environmental precautions

- Runoff from fire control or dilution water may cause pollution. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.

6.3 Methods and material for containment and cleaning up

- Containment/Clean-up Measures**
 - Sweep or vacuum up and place in an appropriate closed container. Avoid dispersal of dust in the air.
LARGE SPILLS: Cover powder spill with plastic sheet or tarp to minimize spreading.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

- Handling**
 - Avoid direct or prolonged contact with skin and eyes. Avoid breathing dust. Keep containers closed when not in use.

7.2 Conditions for safe storage, including any incompatibilities

- Storage**
 - Store in an area that is cool and dry.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

- Exposure Limits/Guidelines**
 - No exposure limits were found for this product or any of its ingredients.

8.2 Exposure controls

- Engineering Measures/Controls**
 - Dilution ventilation. Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Personal Protective Equipment

Respiratory

- For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear eye protection.

Hands

- Wear appropriate gloves.

Skin/Body

- Wear long sleeves and/or protective coveralls.

General Industrial Hygiene Considerations

- Wash hands before eating.

Environmental Exposure Controls

- Follow best practice for site management and disposal of waste.

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	White powder, granules or glass plates with no odor.
Color	White	Odor	Odorless
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Data lacking	Melting Point	628 C(1162.4 F)
Decomposition Temperature	Data lacking	pH	7 (@ 1 wt.wt%)
Specific Gravity/Relative Density	Not relevant	Density	75 to 80 lb(s)/ft³
Water Solubility	Soluble	Viscosity	Not relevant
Explosive Properties	Data lacking	Oxidizing Properties:	Data lacking
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Data lacking
Flammability (solid, gas)	Data lacking		
Environmental			
Octanol/Water Partition coefficient	Data lacking		

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Dusting conditions. extreme humidity.

10.5 Incompatible materials

- None known.

10.6 Hazardous decomposition products

- Oxides of sodium. Oxides of phosphorus.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Sodium Hexametaphosphate 68915-31-1								
Test Type	Dosage	Route	Species	Duration	Results	Test Class	Target Organs	Comments
Acute Toxicity	= 3053 mg/kg	Ingestion/Oral	Rat	NDA	LD50	NDA	NDA	NDA
GHS Properties			Classification					
Acute toxicity			EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met					
Aspiration Hazard			EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met					
Carcinogenicity			EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met					
Germ Cell Mutagenicity			EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met					
Skin corrosion/Irritation			EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met					
Skin sensitization			EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met					
STOT-RE			EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met					
STOT-SE			EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met					
Toxicity for Reproduction			EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met					
Respiratory sensitization			EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met					
Serious eye damage/Irritation			EU/CLP • Classification criteria not met OSHA HCS 2012 • Classification criteria not met					

Route(s) of entry/exposure

- Inhalation, Skin, Eye, Ingestion

Potential Health Effects**Inhalation****Acute (Immediate)**

- Exposure to dust may cause irritation.

Chronic (Delayed)

- No data available

Skin**Acute (Immediate)**

- May cause mild irritation. Exposure to dust may cause mechanical irritation.

Chronic (Delayed)

- No data available.

Eye**Acute (Immediate)**

- May cause mild irritation. Exposure to dust may cause mechanical irritation. Excessive concentrations of nuisance dust in the workplace may reduce visibility and may cause unpleasant deposits in eyes.

Chronic (Delayed)

- No data available.

Ingestion**Acute (Immediate)**

- Ingestion of large quantities may cause nausea, vomiting, diarrhea and abdominal discomfort.

Chronic (Delayed)

- No data available.

Carcinogenic Effects

- This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

Section 12 - Ecological Information

12.1 Toxicity

- No data found for product.

12.2 Persistence and degradability

- No data found for product.

12.3 Bioaccumulative potential

- No data found for product.

12.4 Mobility in Soil

- No data found for product.

12.5 Results of PBT and vPvB assessment

- PBT and vPvB assessment has not been carried out.

12.6 Other adverse effects

Ecological Fate

- No data found for product.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

14.6 Special precautions for user

- None specified.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- Data lacking.

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications

- None

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Sodium Hexametaphosphate	68915-31-1	Yes	No	Yes	Yes	No
Inventory (Con't.)						
Component	CAS	New Zealand		Philippines PICCS	TSCA	
Sodium Hexametaphosphate	68915-31-1	Yes		Yes	Yes	

Canada

Labor

Canada - WHMIS - Classifications of Substances

• Sodium Hexametaphosphate 68915-31-1 Not Listed

Canada - WHMIS - Ingredient Disclosure List

• Sodium Hexametaphosphate 68915-31-1 Not Listed

Environment

Canada - CEPA - Priority Substances List

• Sodium Hexametaphosphate 68915-31-1 Not Listed

Other

Canada - Accelerated Reduction/Elimination of Toxics (ARET)

• Sodium Hexametaphosphate 68915-31-1 Not Listed

Germany

Environment

Germany - TA Luft - Types and Classes

• Sodium Hexametaphosphate 68915-31-1 Not Listed

Germany - Water Classification (VwVwS) - Annex 1

• Sodium Hexametaphosphate 68915-31-1 Not Listed

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

• Sodium Hexametaphosphate 68915-31-1 Not Listed

Germany - Water Classification (VwVwS) - Annex 3

• Sodium Hexametaphosphate 68915-31-1 ID Number 7117, hazard class 1 - low hazard to waters

Philippines

Other

Philippines - Priority Chemical List

• Sodium Hexametaphosphate 68915-31-1 Not Listed

Singapore

Other

Singapore - Corrosive and Explosive Substances - Corrosive Substances

• Sodium Hexametaphosphate 68915-31-1 Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

• Sodium Hexametaphosphate	68915-31-1	Not Listed
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U.S. - OSHA - Specifically Regulated Chemicals

• Sodium Hexametaphosphate	68915-31-1	Not Listed
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Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

• Sodium Hexametaphosphate	68915-31-1	Not Listed
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U.S. - CAA (Clean Air Act) - Class II Ozone Depletors

• Sodium Hexametaphosphate	68915-31-1	Not Listed
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U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

• Sodium Hexametaphosphate	68915-31-1	Not Listed
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U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

• Sodium Hexametaphosphate	68915-31-1	Not Listed
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U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

• Sodium Hexametaphosphate	68915-31-1	Not Listed
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U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

• Sodium Hexametaphosphate	68915-31-1	Not Listed
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U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Sodium Hexametaphosphate	68915-31-1	Not Listed
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U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

• Sodium Hexametaphosphate	68915-31-1	Not Listed
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United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

• Sodium Hexametaphosphate	68915-31-1	Not Listed
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U.S. - California - Proposition 65 - Developmental Toxicity

• Sodium Hexametaphosphate	68915-31-1	Not Listed
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U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

• Sodium Hexametaphosphate	68915-31-1	Not Listed
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U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

• Sodium Hexametaphosphate	68915-31-1	Not Listed
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U.S. - California - Proposition 65 - Reproductive Toxicity - Female

• Sodium Hexametaphosphate	68915-31-1	Not Listed
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U.S. - California - Proposition 65 - Reproductive Toxicity - Male

• Sodium Hexametaphosphate	68915-31-1	Not Listed
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15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

- FDA Status: This product meets the compositional requirements of: 21 CFR 182.6760 SODIUM HEXAMETAPHOSPHATE

Section 16 - Other Information

Last Revision Date

- 07/March/2014

Preparation Date

- 13/August/2004

Disclaimer/Statement of Liability

- The information herein is given in good faith but no warranty, expressed or implied, is made.

Key to abbreviations

NDA = No Data Available
