

# **SAFETY DATA SHEET**

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Preparation Date: 01/01/2019 Revision Date: N/A Revision Number: N/A

# 1. IDENTIFICATION

#### **Product identifier**

Product code: C7680

Product Name: SODIUM PHOSPHATE TRIBASIC, DODECAHYDRATE, CRYSTAL, REAGENT,

ACS

#### Other means of identification

**Synonyms:** Phosphoric acid, trisodium salt, dodeahydrate

CAS #: 10101-89-0
RTECS # TC9575000
CI#: Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** In photography. Detergents. **Uses advised against** No information available

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Emergency telephone number Chemtrec 1-800-424-9300

# 2. HAZARDS IDENTIFICATION

### Classification

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

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 skin irritation
Causes serious eye irritation
May cause respiratory irritation



Not Applicable

#### Other hazards

Not available

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

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves

Wear eye/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

#### **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 advice/attention.

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/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/container to an approved waste disposal plant

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Sodium Phosphate Tribasic, Dodecahydrate	10101-89-0	100
10101-89-0		

# 4. FIRST AID MEASURES

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First aid measures

General Advice: Poison information centers in each State capital city can provide additional

assistance for scheduled poisons (13 1126). First aider needs to protect himself. Ensure that medical personnel are aware of the material(s) involved and take

precautions to protect themselves.

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Get medical attention. If skin irritation persists, call a physician.

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 Irritating to eyes. Irritating to skin. Irritating to eyes and respiratory system. Ingestion may

cause gastrointestinal irritation, nausea, vomiting, and diarrhea. May cause purging. Burning

sensation in the mouth and stomach.

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** 

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:** The substance itself does not burn, but may deompose upon

heating

**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. Do not touch

damaged containers or spilled material unless wearing appropriate protective clothing. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Avoid dust formation.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Do not let this chemical enter the environment.

#### 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. Avoid creating dust. 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. Avoid dust formation. Do not ingest. Do not breathe vapours/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. Metals. Oxidizing agents.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

# National occupational exposure limits

#### **United States**

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Sodium Phosphate Tribasic,	None	None	None	None
Dodecahydrate				
10101-89-0				

#### Canada

Components	Alberta	British Columbia	Ontario	Quebec
Sodium Phosphate Tribasic,	None	None	None	None
Dodecahydrate				
10101-89-0				

# **Australia and Mexico**

Sodium Phosphate Tribasic,	None	None
Dodecahydrate		
10101-89-0		

# 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. Safety glasses with side-shields.

**Skin and body protection:** Long sleeved clothing. Chemical resistant apron. Gloves.

**Respiratory protection:** Effective dust mask.

**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

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Physical state:Appearance:Color:Solid.Crystalline. Crystals.White.

Odor: Taste Formula:

Odorless. No information available Na3PO4.12H2O

Molecular/Formula weight: Flammability: Flash point (°C):

No information available No data available

Flashpoint (°C/°F): Flash Point Tested according to: Autoignition Temperature (°C/°F):

No information available. Not applicable No information available

Lower Explosion Limit (%): Upper Explosion Limit (%): pH:

No information available No information available No information available

Melting point/range(°C/°F): Boiling point/range(°C/°F): Decomposition temperature(°C/°F):

75 °C/167°F No information available No information available

Bulk density: Density (g/cm3): Specific gravity:

No information available 1.62 No information available

Vapor pressure @ 20°C (kPa): Evaporation rate: Vapor density:

No information available No information available No information available

VOC content (g/L):Odor threshold (ppm):Partition coefficientNo information availableNo information available(n-octanol/water):

No information available (n-octanol/water):

No information available

Viscosity: Miscibility: Solubility:

No information available No information available Soluble in Water

Solubility in Water: 15g/L @ 20°C

Insoluble in Ethanol

#### 10. STABILITY AND REACTIVITY

Reactivity

Reactive with acids
Reactive with metals

Reactive with oxidizing agents

Trisodium phosphate forms strong caustic solution, similar to soda lye

Chemical stability

Stability: Stable at normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

Conditions to avoid: Heat. Incompatible materials.

**Incompatible Materials:** Acids. Metals. Oxidizing agents.

**Hazardous decomposition products:** Oxides of phosphorus. Sodium oxides.

**Other Information** 

Corrosivity: No information available

Special Remarks on Corrosivity: When wet, mild steel and brass may be corroded by Sodium Phosphate tribasic

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

#### **Principal Routes of Exposure:**

Ingestion. Inhalation. Skin.

#### **Acute Toxicity**

#### **Component Information**

Sodium Phosphate Tribasic, Dodecahydrate - 10101-89-0

**LD50/oral/rat =** 7400 mg/kg

LD50/oral/mouse = No information available

LD50/dermal/rat = No information available

LD50/dermal/rabbit = No information available

**LC50/inhalation/rat =** No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information = No information available

#### **Product Information**

LD50/oral/rat =

VALUE- Acute Tox Oral = 7400mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = No information available

LD50/dermal/rabbit

VALUE-Acute Tox Dermal = 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. Possible burning pain and corrosive damage.

**Eye Contact:** Causes eye irritation. It causes immediate and severe pain followed by conjunctival

edema and corneal clouding. Later cataract formation may occur. This substance

may cause eye burns.

**Inhalation** Irritating to respiratory system. Symptoms may include coughing, sneezing, choking,

difficulty breathing, and pulmonary edema.

May cause severe gastrointestinal (digestive) tract irritation with severe nausea, vomiting, abdominal discomfort, violent purging, diarrhea, and burning sensation. Ingestion of large amounts may induce hypocalcemia or hypernatremia characterized by tetanus-like spasms, due to the sequestration of calcium ions by the phosphate moiety. It may also cause caustic burns of the mouth oropharnyx, esophagus, or

gastrointestinal tract.

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.

Components	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Sodium Phosphate Tribasic, Dodecahydrate	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

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:

Respiratory system. lungs. No information available No information available

# 12. ECOLOGICAL INFORMATION

# **Ecotoxicity**

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available

Mobility: No information available

# 13. DISPOSAL CONSIDERATIONS

#### 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

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Sodium Phosphate Tribasic, Dodecahydrate	None	None	None	None

# 14. TRANSPORT INFORMATION

DOT

**UN-No:** Not Regulated

Proper Shipping Name: No information available Hazard Class: No information available Subsidiary Risk: No information available

Packing Group: None

**ERG No:** No information available

Marine Pollutant No data available DOT RQ (lbs): 5000 lbs./2270 kg

TDG (Canada)

UN-No: Not Regulated

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

**ADR** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Packing Group:
Subsidiary Risk:
Classification Code:
Description:
No information available

IMO / IMDG

UN-No: Not Regulated

No information available **Proper Shipping Name: Hazard Class:** No information available **Subsidiary Risk:** No information available Packing Group: No information available **Description:** No information available **IMDG Page:** No information available **Marine Pollutant** No information available No information available MFAG: **Maximum Quantity:** No information available

#### 14. TRANSPORT INFORMATION

**RID** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Classification Code:
Description:
No information available

**ICAO** 

UN-No: Not Regulated

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

IATA

UN-No: Not Regulated

Proper Shipping Name: No information available No information available

#### 15. REGULATORY INFORMATION

#### International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Sodium Phosphate Tribasic,	Not Listed	Not present	Pressestetnt	Nerresent	Present	Not prese	nt

#### U.S. Regulations

Sodium Phosphate Tribasic, Dodecahydrate

Massachusetts RTK: Present

New Jersey - Discharge Prevention - List of Hazardous Substances: Present

Pennsylvania RTK: Environmental hazard

Pennsylvania RTK - Environmental Hazard List Present New York Release Reporting - List of Hazardous Substances:

5000 lb RQ 100 lb RQ

Louisana Reportable Quantity List for Pollutants: 2270kgfinal RQ California Directors List of Hazardous Substances: Present

#### 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)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
Sodium Phosphate Tribasic, Dodecahydrate	Not Listed	Not Listed	Not Listed	Not Listed

•	CERCLA - Hazardous Substances and their Reportable Quantities	Hazardous	Hazardous	<b>Chemical Category</b>	Section 313 - Reporting de minimis
Sodium Phosphate Tribasic, Dodecahydrate		None	None	None	None

#### U.S. TSCA

Components	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Sodium Phosphate Tribasic,	Not Applicable	Not Applicable
Dodecahvdrate		

#### Canada

#### WHMIS hazard class:

E Corrosive material

# **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

#### Inventory

Components	Canada (DSL)	Canada (NDSL)
Sodium Phosphate Tribasic,	Not Listed	Not Listed
Dodecahydrate		

Components	CEPA Schedule I - Toxic Substances	CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting	
Sodium Phosphate Tribasic, Dodecahydrate	Not listed	Not listed	

# **EU Classification**

# R-phrase(s)

R41 - Risk of serious damage to eyes.

R37/38 - Irritating to respiratory system and skin.

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.

Components	Classification	Concentration Limits:	Safety Phrases
Sodium Phosphate Tribasic,		No information	
Dodecahydrate			

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

Xi - Irritant.



#### 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. DSI 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, Dawn Scientific Inc assumes no responsibility for the completeness or accuracy of the information contained herein.

**End of Safety Data Sheet**