



Safety Data Sheet

1 – PRODUCT IDENTIFICATION

PRODUCT NAME:.....**3800**

PRODUCT NUMBER:3800

DESCRIPTION:White granules with no odor

OTHER MEANS OF IDENTIFICATION: Phosphoric Acid. CAS 10101-89-0

RECOMMENDED USE:Water Treatment: To precipitate hardness salts and to adjust alkalinity in boiling water.
Corrosion control.

RESTRICTIONS ON USE:Use only as directed.

COMPANY:..... CHEMTRON CORPORATION

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REVISION DATE:January 12, 2018

2 – HAZARDS IDENTIFICATION

CLASSIFICATION 29 CFR 1910.1200:Product is hazardous by OSHA criteria.

Serious Eye Damagecategory 1 –H318

STOT-SE.....category 3, respiratory tract irritation –H335

Skin Irritationcategory 2 –H315

DSD/DPD.....Corrosive (C)



GHS SIGNAL WORD:**DANGER**



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GHS HAZARD STATEMENTS:.....H315: Causes skin irritation
 H318: Causes serious eye damage
 H335: May cause respiratory irritation

GHS PRECAUTIONARY STATEMENTS:.....

Prevention:

- P260: Do not breathe dust
- P280: Wear protective gloves/protective clothing/eye protection/face protection; when conditions warrant use, add face shield, apron, and/or rubber boots.
- P271: Use only outdoors or in well-ventilated area.
- P264: Wash ... thoroughly after handling, wash gloves and contaminated surfaces.

Response:

- P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing for 15 min. call a doctor.
- P321+362+332+313: IF ON SKIN: Specific treatment, see supplemental first aid treatment. Take of contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.
- P312: Call a POISON CENTER or a doctor/physician if you feel unwell.
- P304+340: IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing

Storage/Disposal:

- P405: Store locked up
- P501: Dispose of contents/container in accordance with local state and federal regulations.

3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments
Phosphoric Acid, trisodium salt, dodecahydrate	CAS: 10101-89-0	100%	Ingestion/Oral- Rat LD50 7400 mg/kg	OSHA HCS 2012: Skin irrit. 2; Eye Dam.1; STOT SE 3: Resp. Irrit.	NDA

4 – FIRST-AID MEASURES

BREATHING (INHALATION):...Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one way valve or other proper respiratory medical device. Get medical attention.

SWALLOWING (INGESTION):..If swallowed give 2-3 glasses of water if victim is conscious and alert. Do not give anything by mouth to an unconscious person. Do NOT induce vomiting. 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.

EYES:.....In case of contact with substance, immediately flush eyes with running water for at least 15 minutes. Seek medical attention, preferably with an ophthalmologist. If the physician is not immediately available, eye irrigation should be continued for an



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additional 15 minutes. If it is necessary to transport the patient to a physician and the eye needs to be bandaged, use a dry sterile cloth pad and cover both eyes.

SKIN (DERMAL):In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Wash contaminated clothing before reuse. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention.

ACUTE SYMPTOMS/DELAYED EFFECT:Refer to section 11 – Toxicological Information

5 – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA:.....Product is not flammable. Use media appropriate for surrounding fire.

HAZARDOUS COMBUSTION PRODUCTS:.....Oxides of Sodium, oxides of phosphorous

SPECIAL FIRE FIGHTING PROCEDURES:Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible. Keep unauthorized personnel away. Dike Area to prevent runoff and contamination of water sources. Dispose of fire control water later. Persons who may have been exposed to contaminated smoke should be immediately examined by a physician and checked for symptoms for poisoning. The symptoms should not be mistake for heat exhaustion or smoke inhalation.

6 – ACCIDENTAL RELEASE MEASURES

SPILL PROCEDURES:.....Contain and collect spills with commercial absorbents. Consult local authorities for appropriate waste disposal options in your location. Keep unauthorized personell away.

PERSONAL PRECAUTIONS:....Wear appropriate protective gear for the situation to avoid exposure. Ventilate enclosed areas. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

CONTAINMENT/CLEANUP MEASURES: Sweep or vacuum up and place in an appropriate closed container. Clean up residual material by washing area with water and detergent. Collect washings for disposal.

7 – HANDLING and STORAGE

STORAGE:Keep container tightly close. Keep away from incompatible materials. Store in an area that is room temperature, well-ventilated and isolated from all toxic and harmful substances.

HANDLING:.....Use only adequate ventilation. Handle and open container with care. Wear appropriate personal protective equipment, avoid direct eye contact. Avoid breathing dust. Avoid direct or prolonged contact with skin and eyes. Do not ingest. Potentially deadly carbon monoxide gas can form in enclosed areas or tanks when alkaline products contact materials that contain sugars. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.



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8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

	Result	Other Agency Information
Trisodium phosphate anhydrous (7601-54-9)	STELs	5mg/m3 STEL

ENGINEERING :.....Measures/Controls: Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommend exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

PROTECTIVE CLOTHING: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.

ADDITIONAL MEASURES:.....General exhaust ventilation is adequate. Employ work practices and product transfer practices that avoid spills, drips, or contact with incompatible material.

9 – PHYSICAL / CHEMICAL PROPERTIES

APPEARANCE:Solid White granules with no odor

ODOR:Odorless

VAPOR PRESSURE:.....Data Lacking

VAPOR DENSITY (AIR=1):Data Lacking

SPECIFIC GRAVITY:Data Lacking

pH:11.8

SOLUBILITY IN WATER:Soluble

FLAMMABILITY:Not Flammable

EVAPORATION RATE:.....Data Lacking

MELTING POINT/FREEZING POINT: Data Lacking

10 – STABILITY and REACTIVITY

REACTIVITY:No dangerous reaction known under conditions of normal use.

STABILITY:Stable

HAZARDOUS POLYMERIZATION:Polymerization will not occur.

INCOMPATIBILITY:Strong Acids, magnesium.

HAZARDOUS DECOMP:Oxides of phosphorous. Oxides of Sodium.

CONDITIONS TO AVOID:Dusting conditions. Moisture. Incompatible materials.

11 – TOXICOLOGICAL INFORMATION

	CAS	
Trisodium Phosphate Decahydrate FCC	10101-89-0	Acute Toxicity: Unreported Route-Rat LD50 > 7400 mg/kg; Irritation; Skin-Rabbit-Irritating (non specific severity)



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GHS Properties	Classification
Acute Toxicity	EU/CLP: Data Lacking OSHA HCS 2012: Data Lacking
Aspiration Hazard	EU/CLP: Not Relevant OSHA HCS: Not Relevant
Carcinogenicity	EU/CLP: Not Relevant OSHA HCS 2012: Data Lacking
Germ Cell Mutagenicity	EU/CLP: Data Lacking OSHA HCS 2012: Data Lacking
Skin Corrosion/Irritation	EU/CLP: Skin Irritation 2 OSHA HCS 2012: Skin Irritation 2
Skin Sensitization	EU/CLP: Data Lacking OSHA HCS 2012: Data Lacking
STOT-RE	EU/CLP: Data Lacking OSHA HCS 2012: Data Lacking
STOT-SE	EU/CLP: Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation OSHA HCS 2012: Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation.
Toxicity for Reproduction	EU/CLP: Data Lacking OSHA HCS 2012: Data Lacking
Respiratory Sensitization	EU/CLP: Data Lacking OSHA HCS 2012: Data Lacking
Serious Eye Damage/ Irritation	EU/CLP: Serious Eye Damage 1 OSHA HCS 2012: Serious Eye Damage 1

LIKELY ROUTES OF EXPOSURE:Inhalation, Skin, Eye, Ingestion

DELAYED EFFECTS:No Data available

IMMEDIATE EFFECTS:May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. Causes corrosion, burns to mouth and esophagus, abdominal pain, chest pain, nausea, vomiting, diarrhea, seizures. Aspiration of the swallowed or vomited product can cause severe pulmonary complications.

CHRONIC EFFECTS:No data available

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

12 – ECOLOGICAL INFORMATION

TOXICITY:

Trisodium Phosphate Decahydrate FCC			10101-89-0		
Dosage	Species	Duration	Results	Exposure Conditions	Comments
126 mg/L	Water Flea: Daphnia Magna	96 Hour(s)	EC50	NDA	NDA
151 mg/L	Fish: Mosquitofish	96 Hour(s)	EC50	NDA	NDA

PERSISTENCE AND DEGRADABILITY:No specific biodegradation test data located. While the alkalinity of this material is readily reduced in natural waters, the resulting phosphate may persist indefinitely or incorporate into biological systems.



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BIOACCUMULATIVE POTENTIAL:No data found for this product.

MOBILITY IN SOIL:.....No data found for this product..

OTHER ADVERSE EFFECTS: ..No data found for this product.

RESULTS OF PBT AND vPvB ASSESSMENT:PBT and vPvB assessment has not been carried out.

13 –DISPOSAL CONSIDERATIONS

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.

14 – TRANSPORTATION INFORMATION

	UN number	UN proper shipping name	Transport Hazard Class(es)	Packaging Group	14.5 Environmental hazards
DOT	UN3077	Environmentally hazardous substance, solid, n.o.s. (Sodium Phosphate, tribasic)	NDA	III	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

15 - REGULATIONS

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29CFR 1910.1200

EPA SRA Title III Chemical Listings:

UNITED STATES: LABOR

U.S. OSHA Process Safety Management- Highly Hazardous Chemicals		
Trisodium Phosphate Annhydrous	7601-54-9	Not Listed
Trisodium Phosphate anhydrous as Particulates not otherwise classified (PNOC)		Not Listed
Phosphoric Acid, trisodium salt, dodecahydrate	10101-89-0	Not Listed

UNITED STATES: ENVIRONMENT

U.S. – CAA (Clean Air Act) – 1990 Air Pollutants		
Trisodium phosphate Annhydrous	7601-54-9	Not Listed
Trisodium phosphate anhydrous as Particulates not otherwise classified (PNOC)		Not Listed
Phosphoric Acid, trisodium salt, dodecahydrate	10101-89-0	Not listed

U.S.- CAA (Clean Air Act) – Class II Ozone Depletors		
Trisodium phosphate Annhydrousq	7601-54-9	Not listed
Trisodium phosphate annydrrous as Particulates not otherwise classified (PNOC)		Not listed



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Phosphoric acid, trisodium salt, dodecahydrate	10101-89-0	Not listed
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U.S. – CERCLA/SARA – Hazardous Substances and their Reportable Quantities

Trisodium phosphate anhydrous	7601-54-9	5000 lb final RQ (listed under Sodium phosphate, tribasic); 2270 kg final RQ (listed under Sodium phosphate, tribasic)
Trisodium phosphate anhydrous as Particulates not otherwise classified (PNOC)		Not Listed
Phosphoric acid, trisodium salt, dodecahydrate	10101-89-0	5000 lb final RQ (listed under Sodium phosphate, tribasic); 2270 kg final RQ (listed under Sodium phosphate, tribasic)

U.S. – CERCLA/SARA – Radionuclides and their Reportable Quantities

Trisodium phosphate anhydrous	7601-54-9	Not Listed
Trisodium phosphate anhydrous as Particulates not otherwise classified (PNOC)		Not Listed
Phosphoric acid, trisodium salt, dodecahydrate	10101-89-0	Not Listed

U.S. – CERCLA/SARA – Section 302 Extremely Hazardous Substances EPCRA RQs

Trisodium phosphate anhydrous	7601-54-9	Not Listed
Trisodium phosphate anhydrous as Particulates not otherwise classified (PNOC)		Not Listed
Phosphoric acid, trisodium salt, dodecahydrate	10101-89-0	Not Listed

U.S. – CERCLA/SARA – Section 313 Emission Reporting

Trisodium phosphate anhydrous	7601-54-9	Not Listed
Trisodium phosphate anhydrous as Particulates not otherwise classified (PNOC)		Not Listed
Phosphoric acid, trisodium salt, dodecahydrate	10101-89-0	Not Listed

U.S. – CERCLA/SARA – Section 313 PBT Chemical Listing

Trisodium phosphate anhydrous	7601-54-9	Not Listed
Trisodium phosphate anhydrous as Particulates not otherwise classified (PNOC)		Not Listed
Phosphoric acid, trisodium salt, dodecahydrate	10101-89-0	Not Listed

UNITED STATES: CALIFORNIA ENVIRONMENT

U.S. – CERCLA/SARA – Proposition 65 – Carcinogens List

Trisodium phosphate anhydrous	7601-54-9	Not Listed
Trisodium phosphate anhydrous as Particulates not otherwise classified (PNOC)		Not Listed
Phosphoric acid, trisodium salt, dodecahydrate	10101-89-0	Not Listed



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U.S. – CERCLA/SARA – Proposition 65 – Developmental Toxicity		
Trisodium phosphate anhydrous	7601-54-9	Not Listed
Trisodium phosphate anhydrous as Particulates not otherwise classified (PNOC)		Not Listed
Phosphoric acid, trisodium salt, dodecahydrate	10101-89-0	Not Listed

U.S. – CERCLA/SARA – Proposition 65 – Maximum Allowable Dose Levels (MADL)		
Trisodium phosphate anhydrous	7601-54-9	Not Listed
Trisodium phosphate anhydrous as Particulates not otherwise classified (PNOC)		Not Listed
Phosphoric acid, trisodium salt, dodecahydrate	10101-89-0	Not Listed

U.S. – CERCLA/SARA – Proposition 65 – No significant risk levels (NSRL)		
Trisodium phosphate anhydrous	7601-54-9	Not Listed
Trisodium phosphate anhydrous as Particulates not otherwise classified (PNOC)		Not Listed
Phosphoric acid, trisodium salt, dodecahydrate	10101-89-0	Not Listed

U.S. – CERCLA/SARA – Proposition 65 – Reproductive Toxicity (Female)		
Trisodium phosphate anhydrous	7601-54-9	Not Listed
Trisodium phosphate anhydrous as Particulates not otherwise classified (PNOC)		Not Listed
Phosphoric acid, trisodium salt, dodecahydrate	10101-89-0	Not Listed

U.S. – CERCLA/SARA – Proposition 65 – Reproductive Toxicity (Male)		
Trisodium phosphate anhydrous	7601-54-9	Not Listed
Trisodium phosphate anhydrous as Particulates not otherwise classified (PNOC)		Not Listed
Phosphoric acid, trisodium salt, dodecahydrate	10101-89-0	Not Listed

16 – OTHER INFORMATION

This data is offered in good faith and believed to be accurate, but it is for the users to satisfy themselves of the product suitability for their own purpose. There is no warranty expressed or implied. The recommended hygiene and safe handling procedures are believed to be generally applicable.