

SAFETY DATA SHEET

| Issue Date 07-Jun-2016 R | evision Date 15-Jun-2016 | Version 1 | Page | 1 / 17 |
|---|--|--------------|------|--------|
| 1. IDENTIFICATION | | | | |
| <u>Product identifier</u> Product Name | DPD Free Chlorine Reagent | | | |
| <u>Other means of identification</u> Product Code(s) | 1407799 | | | |
| Safety data sheet number | M00109 | | | |
| Component of Kits or Sets | 1411100; 1411100RGT; 223102; 223102Q; 223102RGT; 2315001; 2315001RGT; 2438800; 2569600; 2569600K; 2569600RGT; 2842800; 2842800RGT; 2886800; 2886800CN; 2886900; 2886900CN; 461-XD1477.87; L2098CA; L7932; L7932K; TESTPLM3; XD1477-87 | | | |
| Recommended use of the chemic | | | | |
| Recommended Use | Laboratory Use. Determination of Fr | ee Chlorine. | | |
| Uses advised against | None. | | | |
| Restrictions on use | None. | | | |
| Details of the supplier of the safe | ty data sheet | | | |
| <u>Manufacturer Address</u> Hach Company P.O.Box 389 Loveland, CO 80539 (970) 669-3050 | USA | | | |
| Emergency telephone number (303) 623-5716 - 24 Hour Service (| 515)232-2533 - 8am - 4pm CST | | | |
| Product Information | | | | |
| Chemical Name | Not applicable | | | |
| Formula | Not applicable | | | |
| CAS No | Not applicable | | | |
| Alternate CAS Number | Not applicable | | | |
| NIOSH (RTECS) Number | None reported | | | |
| | 2. HAZARDS IDENTIFIC | CATION | | |
| Classification | | | | |
| Regulatory Status | | | | |

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 |

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

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Signal word - Warning



<u>Hazard statements</u> H315 - Causes skin irritation H319 - Causes serious eye irritation

P264 - Wash face, hands and any exposed skin thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P362 - Take off contaminated clothing and wash before reuse
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P337 + P313 - If eye irritation persists: Get medical advice/attention

Other Information Not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable

Mixture

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

Chemical Family

Mixture.

| Chemical Name | CAS No | Weight-% | HMRIC # |
|--|-----------|----------|---------|
| Carboxylate Salt | - | 60.479 | - |
| Sodium Phosphate, Dibasic | 7558-79-4 | 35.2295 | - |
| Salt of N,N-Diethyl-p-Phenylenediamine | - | 3.1936 | - |
| Ethylenediaminetetraacetic Acid, Disodium Salt | 139-33-3 | 1.0978 | - |

4. FIRST AID MEASURES

Description of first aid measures

| General advice | In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). |
|--|---|
| Eye contact | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist, call a physician. |
| Skin contact | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If symptoms persist, call a physician. |
| Inhalation | IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician. |
| Ingestion | IF SWALLOWED: Rinse Mouth. If symptoms persist, call a physician. |
| Self-protection of the first aider | Use personal protective equipment as required. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. |
| Most important symptoms and effe | cts, both acute and delayed |
| Symptoms | See Section 11: TOXICOLOGICAL INFORMATION. |
| Indication of any immediate medical attention and special treatment needed | |
| Note to physicians | Treat symptomatically. |
| | |

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Flammable properties

Can burn in fire, releasing toxic vapors.

Specific hazards arising from the chemical

May react violently with:. Strong oxidizers.

Hazardous combustion products

Carbon monoxide, carbon dioxide. Phosphorus oxides. nitrogen oxides.

Protective equipment and precautions 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

| U.S. Notice | Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals. |
|-------------|--|
| EC Notice | Only persons properly qualified to respond to an emergency involving hazardous substances should respond to a spill involving chemicals. See Section 13, Special |

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|--|--|--|--|
| | Instructions for disposal assistance. | | |
| WHMIS Notice | Only persons properly qualified to respond to an emergency involving hazardous substances should respond to a spill involving chemicals. See Section 13, Special Instructions for disposal assistance. | | |
| Personal precautions, protective e | quipment and emergency procedures | | |
| Personal precautions | Evacuate personnel to safe areas. Do not touch or walk through spilled material. Ventilate affected area. Use personal protective equipment as required. | | |
| For emergency responders | Use personal protection recommended in Section 8. | | |
| Environmental precautions | | | |
| Environmental precautions | Avoid release to the environment. See Section 12 for additional ecological information. | | |
| Methods and material for containm | ent and cleaning up | | |
| Methods for containment | Prevent further leakage or spillage if safe to do so. Cover with plastic sheet to prevent spreading. | | |
| Methods for cleaning up | Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Dispose of in accordance with local, state and federal regulations or laws. | | |
| Emergency Response Guide Numb | er Not applicable | | |
| | 7. HANDLING AND STORAGE | | |
| Precautions for safe handling | | | |
| Advice on safe handling | Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. | | |
| Conditions for safe storage, includ | ing any incompatibilities | | |
| Storage Conditions | Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. | | |
| Flammability class | Not applicable | | |
| Incompatible materials | Incompatible with:. Oxidizers. | | |
| 8. EX | POSURE CONTROLS/PERSONAL PROTECTION | | |
| Control parameters | | | |
| Exposure Guidelines | This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. | | |
| | | | |
| | | | |
| Legend | See section 16 for terms and abbreviations | | |
| Appropriate engineering controls | | | |
| Engineering Controls | Showers Eyewash stations Ventilation systems | | |

Individual protection measures, such as personal protective equipment

| Eye/face protection | Avoid contact with eyes. Wear tight sealing safety goggles and/or face protection shield. |
|--------------------------------|---|
| Skin and body protection | Wear protective gloves and protective clothing. |
| Respiratory protection | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| General Hygiene Considerations | Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear suitable gloves and eye/face protection. Wash face, hands and any exposed skin thoroughly after handling. Regular cleaning of equipment, work area and clothing is recommended. Handle in accordance with good industrial hygiene and safety practice. Avoid prolonged or repeated contact with skin. Take off all contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. |

Environmental exposure controls

Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| Physical state | | Solid | | | |
|--|----------------------|-------------------|--------------------|----------------|---------------------|
| Gas Under Press | ure | Not clas | sified according t | o GHS criteria | |
| Appearance | Powder | | | Color | White to light pink |
| Odor | Odorless | | | Odor threshold | No data available |
| Property_ | | | Values_ | | Remarks • Method |
| Molecular weight | : | | No data availab | ble | |
| рН | | | 6.3 | | 1% Solution |
| Melting point/freezing point | | No data availab | ble | | |
| Boiling point / boiling range | | No data available | | | |
| Evaporation rate | | Not applicable | | | |
| Vapor pressure | | | Not applicable | | |
| Vapor density (ai | r = 1) | | Not applicable | | |
| Specific gravity (| water = 1 / air = 1) | | 1.76 | | |
| Partition Coefficient (n-octanol/water) | | No data available | | | |
| Soil Organic Carbon-Water Partition Coefficient | | No data available | | | |
| Autoignition tem | perature | | No data availab | ble | |
| Decomposition to | emperature | | 110 °C / | | |
| Dynamic viscosit | ty | | Not applicable | | |

Kinematic viscosity

Not applicable

Solubility(ies)

Water solubility

| Water solubility classification | Water solubility | Water Solubility Temperature |
|---------------------------------|------------------|------------------------------|
| Soluble | > 1000 mg/L | 25 °C / 77 °F |

Solubility in other solvents

| Chemical Name | Solubility classification | Solubility | Solubility Temperature | |
|------------------------------|---------------------------|---|------------------------|--|
| Acid | Soluble | > 1000 mg/L | 25 °C / 77 °F | |
| Other Information | | | | |
| Metal Corrosivity | | Not classified as corrosive to metal according to GHS criteria | | |
| Steel Corrosion Rate | | Not applicable | | |
| Aluminum Corrosion Rate | | Not applicable | | |
| Volatile Organic Compounds (| VOC) Content | Not applicable. | | |
| Bulk density | | No data available | | |
| - | | | ., . | |
| Explosive properties | | Not classified according to GHS criteria. | | |
| Explosion data | | No data available | | |
| Upper explosion limit | | No data available | | |
| Lower explosion limit | | No data available | | |
| Flammable properties | | Can burn in fire, releasing toxic vapors. | | |
| Flammability Limit in Air | | | | |
| Upper flammability limit: | | No data available | | |
| Lower flammability limit: | | No data available | | |
| Flash point | | Not applicable | | |
| Method | | No information available | | |
| Oxidizing properties | | Not classified according to GHS criteria. | | |
| Reactivity propeties | | Not classified as self-reactive, py flammable gases in contact with | | |

10. STABILITY AND REACTIVITY

<u>Chemical stability</u> Stable under recommended storage conditions.

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None reported

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Exposure to light. Excess moisture. Heating to decomposition. Contact with oxidizers. Poor Ventilation.

Incompatible materials Incompatible with:. Oxidizers.

Hazardous Decomposition Products

Heating to decomposition releases toxic and/or corrosive fumes of:. Carbon dioxide. Carbon Monoxide. Phosphorus oxides. Nitrogen oxides.

Explosive properties

Not classified according to GHS criteria.

| Upper explosion limit | No data available |
|--------------------------|-------------------|
| Lower explosion limit | No data available |
| Autoignition temperature | |

No data available

Sensitivity to Static Discharge None reported

Sensitivity to Mechanical Impact None reported

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

| Product Information | Causes skin irritation. Causes eye irritation. |
|---|--|
| Inhalation | No known effect based on information supplied. |
| Eye contact | Contact with eyes may cause irritation. |
| Skin contact | Causes skin irritation. |
| Ingestion | No known effect based on information supplied. |
| Aggravated Medical Conditions | None known. |
| Toxicologically synergistic products | None known. |
| Toxicokinetics, metabolism and distribution | See ingredients information below. |

| Chemical Name | Toxicokinetics, metabolism and distribution |
|-----------------------|---|
| Sodium Phosphate, | Phosphates are widely utilized by cells for metabolism of proteins, fats and carbohydrates. |
| Dibasic | |
| (30 - 40%) | |
| CAS#: 7558-79-4 | |
| Ethylenediaminetetra | EDTA and related compounds are poorly absorbed by the digestive system. |
| acetic Acid, Disodium | |
| Salt | |
| (0 - 10%) | |
| CAS#: 139-33-3 | |

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Product Acute Toxicity Data

| Oral Exposure Route | No data available |
|---------------------------------------|-------------------|
| Dermal Exposure Route | No data available |
| Inhalation (Dust/Mist) Exposure Route | No data available |
| Inhalation (Vapor) Exposure Route | No data available |
| Inhalation (Gas) Exposure Route | No data available |

The following values are calculated based on chapter 3.1 of the GHS document

| ATEmix (oral) | 19,864.00 mg/kg |
|---------------|-----------------|

Ingredient Acute Toxicity Data

Oral Exposure Route

| Chemical Name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|--|------------------|---------------|------------------|--|--|
| Salt of N,N-Diethyl-p-Phenyl enediamine (0 - 10%) CAS#: - | Rat LD₅₀ | 695 mg/kg | None reported | Musculoskeletal Decreased locomotor activity Muscle contraction or spasticity Loss of righting reflex Lungs, Thorax, or Respiration Depressed respiration Death | Internal Data |
| Ethylenediaminetetra acetic Acid, Disodium Salt (0 - 10%) CAS#: 139-33-3 | Rat LD₅₀ | 2000 mg/kg | None reported | None reported | RTECS (Registry of Toxic Effects of Chemical Substances) |
| Chemical Name | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
| Salt of N,N-Diethyl-p-Phenyl enediamine (0 - 10%) CAS#: - | Rat LD50 | 970 mg/kg | None reported | None reported | Internal Data |
| Ethylenediaminetetra acetic Acid, Disodium Salt (0 - 10%) CAS#: 139-33-3 | Rabbit LD₅₀ | 2300 mg/kg | None reported | None reported | RTECS (Registry of Toxic Effects of Chemical Substances) |

Dermal Exposure Route

Inhalation (Dust/Mist) Exposure Route

Inhalation (Vapor) Exposure Route

Inhalation (Gas) Exposure Route

Product Skin Corrosion/Irritation Data No data available. No data available

No data available

No data available

No data available

Ingredient Skin Corrosion/Irritation Data

| Chemical Name | Test method | Species | Reported dose | Exposure time | Results | Key literature references and sources for data |
|---|-------------------------|---------|------------------|------------------|---------------|--|
| Sodium Phosphate, Dibasic (30 - 40%) CAS#: 7558-79-4 | Standard Draize Test | Rabbit | 500 mg | 24 hours | Skin irritant | RTECS (Registry of Toxic Effects of Chemical Substances) |

Product Serious Eye Damage/Eye Irritation Data No data available.

Ingredient Eye Damage/Eye Irritation Data

| Chemical Name | Test method | Species | Reported dose | Exposure time | Results | Key literature references and sources for data |
|---|-------------------------|---------|------------------|------------------|--------------|--|
| Sodium Phosphate, Dibasic (30 - 40%) CAS#: 7558-79-4 | Standard Draize Test | Rabbit | 500 mg | 24 hours | Eye irritant | RTECS (Registry of Toxic Effects of Chemical Substances) |

Sensitization Information

Product Sensitization Data

| No data available. |
|--------------------|
| No data available. |
| |
| No data available. |
| No data available. |
| |
| |
| No data available. |
| |
| No data available |
| |

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Inhalation (Gas) Exposure Route

No data available

| Chemical Name | CAS No | ACGIH | IARC | NTP | OSHA |
|---|-----------|-------|------|-----|------|
| Carboxylate Salt | - | - | - | - | - |
| Sodium Phosphate, Dibasic | 7558-79-4 | - | - | - | - |
| Salt of N,N-Diethyl-p-Phenylenedi amine | - | - | - | - | - |
| Ethylenediaminetetraacetic Acid, Disodium Salt | 139-33-3 | - | - | - | - |

Legend

| ACGIH (American Conference of Governmental Industrial H | ygienists) | Does not apply |
|--|----------------------------|--|
| IARC (International Agency for Research on Cancer) | | Does not apply |
| NTP (National Toxicology Program) | | Does not apply |
| OSHA (Occupational Safety and Health Administration of th | e US Department of | X - Present |
| Labor) | | |
| Product Carcinogenicity Data | No data available | |
| Oral Exposure Route | No data available | |
| Dermal Exposure Route | No data available | |
| Inhalation (Dust/Mist) Exposure Route | No data available | |
| Inhalation (Vapor) Exposure Route | No data available | |
| Inhalation (Gas) Exposure Route | No data available | |
| Ingredient Carcinogenicity Data | | |
| Oral Exposure Route | No data available | |
| Dermal Exposure Route | No data available | |
| Inhalation (Dust/Mist) Exposure Route | No data available | |
| Inhalation (Vapor) Exposure Route | No data available | |
| Inhalation (Gas) Exposure Route | No data available | |
| Product Germ Cell Mutagenicity <i>invitro</i> Data No data available. | | |
| Ingredient Germ Cell Mutagenicity invitro Data | Toxicological data for ing | redients is not indicative of likely harm. |
| Oral Exposure Route | No data available | |
| Dermal Exposure Route | No data available | |
| Inhalation (Dust/Mist) Exposure Route | No data available | |
| Inhalation (Vapor) Exposure Route | No data available | |
| | | |

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|--|---|
| Inhalation (Gas) Exposure Route | No data available |
| Ingredient Germ Cell Mutagenicity invivo Data | |
| Oral Exposure Route | No data available |
| Dermal Exposure Route | No data available |
| Inhalation (Dust/Mist) Exposure Route | No data available |
| Inhalation (Vapor) Exposure Route | No data available |
| Inhalation (Gas) Exposure Route | No data available |
| Oral Exposure Route | No data available |
| Dermal Exposure Route | No data available |
| Inhalation (Dust/Mist) Exposure Route | No data available |
| Inhalation (Vapor) Exposure Route | No data available |
| Inhalation (Gas) Exposure Route | No data available |
| Ingredient Reproductive Toxicity Data | |
| Oral Exposure Route | No data available |
| Dermal Exposure Route | No data available |
| Inhalation (Dust/Mist) Exposure Route | No data available |
| Inhalation (Vapor) Exposure Route | No data available |
| Inhalation (Gas) Exposure Route | No data available |

12. ECOLOGICAL INFORMATION

Based on the classification principles, not classified as hazardous to the environment.

| Product Ecological Data | |
|----------------------------|-------------------|
| Aquatic toxicity | |
| Fish | No data available |
| Crustacea | No data available |
| Algae | No data available |
| Terrestrial toxicity | |
| Soil | No data available |
| Vertebrates | No data available |
| Invertebrates | No data available |
| Ingredient Ecological Data | |
| Aquatic toxicity | |

Ecotoxicity

| Fish | | | | | |
|--|------------------|---------------------|------------------|---------------|---|
| Chemical Name | Exposure time | Species | Endpoint type | Reported dose | Key literature references and sources for data |
| Salt of N,N-Diethyl-p-Phenyl enediamine (0 - 10%) CAS#: - | 96 hours | Daphnia magna | None reported | 21.6 mg/L | Internal Data |
| Ethylenediaminetetra acetic Acid, Disodium Salt (0 - 10%) CAS#: 139-33-3 | 96 hours | Lepomis macrochirus | LC50 | 159 mg/L | Vendor SDS |
| Chemical Name | Exposure time | Species | Endpoint type | Reported dose | Key literature references and sources for data |
| Salt of N,N-Diethyl-p-Phenyl enediamine (0 - 10%) CAS#: - | 24 hours | None reported | None reported | 12.5 mg/L | Internal Data |

Crustacea

| Chemical Name | Exposure time | Species | Endpoint type | Reported dose | Key literature references and sources for data |
|---|------------------|---------------|------------------|------------------|---|
| Salt of N,N-Diethyl-p-Phenyl enediamine (0 - 10%) CAS#: - | 48 Hours | Daphina magna | EC50 | 10.8 mg/L | No information available |

Algae

| Chemical Name | Exposure time | Species | Endpoint type | Reported dose | Key literature references and sources for data |
|--|------------------|---------------|------------------|------------------|---|
| Ethylenediaminetetra acetic Acid, Disodium Salt (0 - 10%) CAS#: 139-33-3 | | None reported | EC ₅₀ | 10 mg/L | Vendor SDS |

Terrestrial toxicity

Soil No data available Vertebrates No data available No data available Invertebrates

Other Information

Persistence and degradability None known.

Product Biodegradability Data No data available.

Ingredient Biodegradability Data No data available

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| Bioaccumulation None known. | |
|---|--------------------|
| Product Bioaccumulation Data | No data available. |
| Ingredient Bioaccumulation Data | No data available |
| Additional information | |
| Product Information | No data available |
| Partition Coefficient (n-octanol/water) | No data available |

Ingredient Information

| Chemical Name | Partition Coefficient (n-octanol/water) | Method |
|---|--|--------------------------|
| Salt of N,N-Diethyl-p-Phenylenediamine (0 - 10%) CAS#: - | log K _{ow} = -1.56 | No information available |
| Ethylenediaminetetraacetic Acid, Disodium Salt (0 - 10%) CAS#: 139-33-3 | log K _{ow} < 0 | No information available |

Mobility

Mobility in soil: Moderate to high mobility. If available, see ingredient data below.

Product Information

No data available No data available

Soil Organic Carbon-Water Partition Coefficient

Ingredient Information

| Chemical Name | Soil Organic Carbon-Water Partition Coefficient | Method |
|---|--|--------------------------|
| Ethylenediaminetetraacetic Acid, Disodium Salt (0 - 10%) | log K₀c < 0 | No information available |
| CAS#: 139-33-3 | | |

Additional information

Water solubility

Product Information

| Water solubility classification | Water solubility | Water Solubility Temperature |
|---------------------------------|------------------|------------------------------|
| Soluble | > 1000 mg/L | 25 °C / 77 °F |

Ingredient Information

| Chemical Name | Water solubility classification | Water solubility | Water solubility temperature °C | Water solubility temperature °F |
|---|------------------------------------|------------------|------------------------------------|------------------------------------|
| Carboxylate Salt (60 - 70%) CAS#: - | Soluble | > 1000 mg/L | 25 °C | 77 °F |
| Sodium Phosphate, Dibasic | Completely soluble | 118000 mg/L | 20 °C | 68 °F |

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| (30 - 40%) | | | | |
|--|--------------------|--------------|-------|-------|
| CAS#: 7558-79-4 | | | | |
| Salt of N,N-Diethyl-p-Phenylenediamine | Completely soluble | > 10000 mg/L | 25 °C | 77 °F |
| (0 - 10%) | | - | | |
| CAS#: - | | | | |
| Ethylenediaminetetraacetic Acid, Disodium Salt | Completely soluble | 100000 mg/L | 20 °C | 68 °F |
| (0 - 10%) | | | | |
| CAS#: 139-33-3 | | | | |

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

| Disposal of wastes | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
|-----------------------------------|---|
| Contaminated packaging | Working in a well-ventilated area,. Rinse three times with an appropriate solvent. Collect rinsate and dispose of according to local, state or federal regulations. Dispose of empty container as normal trash. In the US, rinsate from empty containers is classified as hazardous waste and should be disposed of at an E.P. A. approved facility. Rinsate from empty containers may contain sufficient product to require disposal as hazardous waste in countries other than the US. Improper disposal or reuse of this container may be dangerous and illegal. Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| Special instructions for disposal | Dilute to 3 to 5 times the volume with cold water. If permitted by regulation, Open cold water tap completely, slowly pour the material to the drain. Allow cold water to run for 5 minutes to completely flush the system. Otherwise, Check with local municipal and state authorities and waste contractors for pertinent local information regarding the proper disposal of chemicals. |

14. TRANSPORT INFORMATION

| DOT | Not regulated |
|-------|-----------------------------------|
| TDG | Not regulated |
| IATA | Not regulated |
| IMDG | Not regulated |
| Note: | No special precautions necessary. |

15. REGULATORY INFORMATION

| National Inventories | |
|----------------------|-----------------|
| TSCA | Complies |
| DSL/NDSL | Complies |
| INSQ | Does not comply |

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List **INSQ** - National Inventory of Chemical Substances in Mexico

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| International Inventories | |
|---------------------------|-----------------|
| EINECS/ELINCS | Complies |
| ENCS | Complies |
| IECSC | Complies |
| KECL | Complies |
| PICCS | Complies |
| TCSI | Does not comply |
| AICS | Complies |
| NZIoC | Complies |

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substances Inventory

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

| Acute health hazard | No |
|-----------------------------------|----|
| Chronic Health Hazard | No |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|--------------------------------|------------------------|------------------------------|-------------------------------|
| Sodium Phosphate, Dibasic 7558-79-4 | 5000 lb | - | - | Х |

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|---------------------------|--------------------------|----------------|--------------------------|
| Sodium Phosphate, Dibasic | 5000 lb | - | RQ 5000 lb final RQ |
| 7558-79-4 | | | RQ 2270 kg final RQ |

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

New Jersey Trade Secret Registry Number 80100131-5001 (Carboxylate Salt) New Jersey Trade Secret Registry Number 80100131-5002 (DPD Salt) New York Trade Secret Registry Number 478 (DPD Salt) New York Trade Secret Registry Number 479 (Carboxylate Salt) This product complies with Pennsylvania Trade Secret Regulations. This product is registered as a trade secret in the state of Illinois. This product is registered as a trade secret in the state of Massachusetts. This product is registered as a trade secret in the state of secret as a trade secret in the state of New York.

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---------------------------|------------|---------------|--------------|
| Sodium Phosphate, Dibasic | Х | Х | Х |
| 7558-79-4 | | | |

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA and HMIS Classifications

| NFPA | Health hazards - 2 | Flammability - 0 | Instability - 0 | Physical and Chemical Properties - |
|------|--------------------|------------------|----------------------|---------------------------------------|
| HMIS | Health hazards - 2 | Flammability - 0 | Physical hazards - 0 | Personal protection - X |
| | | | | - See section 8 for more |
| | | | | information |

Key or legend to abbreviations and acronyms used in the safety data sheet

| NIOSH IDLH | Immediately Dangerous to Life or Health |
|------------|---|
| ACGIH | ACGIH (American Conference of Governmental Industrial Hygienists) |
| NDF | no data |

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
|------------------------|--|-----------------|---|
| Х | Listed | Vacated | te regulations. |
| SKN* RSP+ C M | Skin designation Respiratory sensitization Carcinogen mutagen | SKN+ ** R | Skin sensitization Hazard Designation Reproductive toxicant |

| Prepared By | Hach Product Compliance Department |
|---------------|------------------------------------|
| Issue Date | 07-Jun-2016 |
| Revision Date | 15-Jun-2016 |
| Revision Note | None New SDS |

Disclaimer

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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End of Safety Data Sheet