

STERLING WATER TECHNOLOGIES LLC

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: CP 4040D

Recommended use of the chemical and restrictions on use:

Manufacturer: Sterling Water Technologies LLC
902 S High St
Columbia, TN 38401

Telephone: (800) 426-2428

Emergency Phone: CHEMTREC: (800) 424-9300

SDS Date of Preparation: 12/26/12

Prepared by: Denese A. Deeds, CIH Industrial Health & Safety Consultants, Inc. Shelton, CT 203-929-3473

2. HAZARDS IDENTIFICATION

GHS Classification:

Physical	Health	Environment
Not Hazardous	Not Hazardous	Not Hazardous

OSHA Specific Hazards: Combustible Dust Category 1

GHS Label Elements:

WARNING!

Statements of Hazard

May form combustible dust concentrations in air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Non-Hazardous Inorganic Phosphates	Proprietary	100%

The exact concentration is being withheld as a trade secret.

4. FIRST AID MEASURES

Eye: Immediately flush victim's eyes with large quantities of water, holding the eyelids apart. Get medical attention if irritation persists.

Skin: Wash skin thoroughly with soap and water. Get medical attention if irritation develops and persists. Remove and launder clothing before re-use.

Ingestion: Do not induce vomiting. Rinse mouth with water and give one glass of water to drink. Never give anything by mouth to an unconscious or convulsing person. Get medical attention.

Inhalation: Remove victim to fresh air. If breathing is difficult or irritation persists, Get medical attention.

Most important Symptoms: May cause mechanical eye and skin irritation. Inhalation of dust may cause irritation of the nose, throat and upper respiratory irritation.

Indication of immediate medical attention/special treatment: None indicated.

5. FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use water spray, foam, carbon dioxide or dry chemical to extinguish fire. Cool fire exposed containers and structures with water. Do not use solid water jet as that may create a dust cloud that can present an explosion hazard.

Specific hazards arising from the chemical: Dust generated in handling this material may present a potential fire and explosion hazard if suspended in air at high concentrations. Settled dust presents a fire hazard. Resuspension of the dust into the air by vibration, traffic, material handling, etc. in high concentrations in the presence of an ignition source could result in a dust explosion. Minimize the generation and accumulation of dust. Thermal decomposition may yield oxides of sodium and phosphorus.

Special Protective Equipment and Precautions for Fire-Fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Powders that become wet may cause surfaces to be extremely slippery and present a slip hazard.

Explosion Data (sensitivity to mechanical impact or static discharge): None known.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Evacuate spill area and keep unprotected personnel away. Eliminate all sources of ignition. Wear appropriate protective clothing as described in Section 8. Powders that become wet may cause surfaces to be extremely slippery and present a slip hazard.

Methods and Materials for Containment and Cleaning Up: Scoop or shovel up using methods that minimize the generation of airborne dust. Nonsparking tools should be used. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentrations. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Place dry material into an appropriate container for disposal. Flush spill area with water to remove residue. Prevent spill from entering sewers and water courses. Report releases as required by local, state and federal authorities.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with the eyes. Avoid prolonged or repeated skin contact. Avoid breathing dusts. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Possible combustible dust hazard. Minimize the generation and accumulation of dust. Keep dust away from open flames, hot surfaces and sources of ignition. Follow good housekeeping practices to keep surfaces, including areas overhead such as piping, drop ceilings, ductwork, etc. free from settled dust. Dry powders can build static electricity charges when subjected to friction of transfer and in mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.

Do not reuse containers. Empty containers retain product residues can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, dry, well ventilated area away from sources of ignitions and incompatible materials. Protect from physical damage. Protect from moisture.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Non-Hazardous Inorganic Phosphates	5 mg/m3 (Respirable fraction), 15 mg/m3 (Total dust)TWA OSHA PEL (as PNOC)
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Engineering Controls: Use with general or adequate local exhaust ventilation to minimize exposure levels. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust handling systems (such as exhaust ducts, dust collectors, vessels and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e. there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

Respiratory Protection: If the occupational exposure limits are exceeded, a NIOSH approved respirator with particulate filters appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

Skin Protection: Wear impervious gloves such as rubber or neoprene if needed to avoid prolonged skin contact.

Eye Protection: Safety glasses or dust goggles recommended to avoid eye contact.

Other: Long-sleeved clothing and long pants recommended to avoid prolonged skin contact. Suitable washing facilities should be available in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance And Odor: White, odorless powder

Physical State: Solid	Odor Threshold: Not applicable
Vapor Density: Not applicable	Initial Boiling Point/Range: Not applicable
Solubility In Water: Not available	Vapor Pressure: Not applicable
Relative Density: Not available	Evaporation Rate: Not applicable
Melting/Freezing Point: Not available	pH: Not applicable
VOC Content: 0%	Octanol/Water Coefficient: Not determined
Solubility: Not determined	Decomposition Temperature: Not determined
Viscosity: Not applicable	Flammability(solid, gas): Combustible dust
Flashpoint: Not applicable	Autoignition Temperature: None
Flammable Limits: LEL: Not applicable	UEL: Not applicable

10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: Avoid heat, sparks, flames and all other sources of ignition. Avoid hygroscopic conditions and dust formation. Protect from moisture.

Incompatible Materials: Acids.

Hazardous Decomposition Products: When heated to decomposition emits toxic oxides of sodium and phosphorus.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

Ingestion: Ingestion may cause gastrointestinal irritation. May cause nausea, vomiting and diarrhea. Large amounts may cause decreased blood pressure, decreased heart rate and coma.

Inhalation: Inhalation of dust may cause irritation of the nose throat and upper respiratory tract.

Eye: Dust may cause mechanical irritation.

Skin: May be abrasive and cause irritation on prolonged or repeated contact.

Sensitization: This material is not known to cause sensitization.

Chronic: None known.

Carcinogenicity: None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.

Germ Cell Mutagenicity: None currently known.

Reproductive Toxicity: None currently known.

Numerical Measures of Toxicity: Inorganic Phosphates: Oral rat LD50 – 3053 mg/kg; Skin rabbit LD50-7940 mg/kg.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Inorganic Phosphates: 96 hr LC50 Mosquito fish -186 mg/L; 48 hr LC50 Daphnia magna - >1000mg/L ; 96 hr LC50 Rainbow trout - >1000mg/L.

Persistence and Degradability: No data available

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: None known

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state and federal environmental regulations.

14. TRANSPORT INFORMATION

DOT Hazardous Materials Description:

Proper Shipping Name: Not Regulated

UN Number: None

Hazard Class/Packing Group: None

Labels Required: None

15. REGULATORY INFORMATION

CERCLA: Releases of this product are not subject to CERCLA reporting. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Fire Hazard

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

EPA TSCA Inventory: All of the ingredients in this product are listed on the EPA TSCA Inventory.

CANADA:

This product has been classified under the CPR and this SDS discloses information elements required by the CPR.

Canadian CEPA: All the components of this product are listed on the Canadian DSL.

Canadian WHMIS Classification: Not a controlled product.

16. OTHER INFORMATION

NFPA Rating: Health = 1 Flammability = 2 Instability = 0
HMIS Rating: Health = 1 Flammability = 2 Physical Hazard = 0

SDS Revision History:

07/24/07: New MSDS

5/27/11: Comprehensive review: Section 2 & 3 Reversed; Section 2 - Emergency Overvoew, Section 3 – Components; Section 4 First Aid -Eye, Skin, Section 5 & 9 - Moved flash point, and explosive limits info; Section 8 - Change in exposure limits; Engineering Controls, Section 10 Decomposition Products, Section 11 - Acute Toxicity Values; , Eyes, carcinogenicity, Section 12 - Ecotoxicity Values; and Section 15- CERCLA,, SARA 311/312, WHMIS

12/26/12: Updated format. Updated Section 5: Fire fighting measures, Section 6: Accidental release measures, Section 7: Handling and Storage, Section 8: Exposure limits, and Section 9: physical properties.

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and handling of Combustible Particulate Solids, for safe handling.

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Sterling Water Technologies LLC shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.