



# MATERIAL SAFETY DATA SHEET

## 1. Chemical Product and Company Information

Product Name: WSU 358

Chemical Family: Sodium Polyphosphate

Chemical Name: Blended Polyphosphate

Synonyms: none

MSDS No.: D58005

### COMPANY INFORMATION

Water Solutions Unlimited, Inc.  
295 Industrial Dr.  
Franklin, Indiana 46131

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## 2. Composition / Information on Ingredients

Specific chemical identity of ingredients withheld as proprietary information. Refer to remaining sections for information concerning the properties and effects of ingredients.

## 3. Hazards Identification

### EMERGENCY OVERVIEW

Appearance and Odor: white granular or powder solid, odorless

### WARNING STATEMENTS

CAUTION!  
MAY CAUSE SKIN, EYE AND RESPIRATORY TRACT IRRITATION

### POTENTIAL HEALTH EFFECTS

ACUTE EYE: May cause some irritation

ACUTE SKIN: May cause some irritation, Skin absorption not likely

ACUTE INHALATION: Dust may cause some respiratory tract irritation

ACUTE INGESTION: May cause gastrointestinal tract irritation, nausea, vomiting, and diarrhea.

Refer to Section 11 for toxicological information.

#### **4. First Aid Measures**

IF IN EYES OR ON SKIN, Flush eyes with water for at least 15 minutes. This material can be removed with water. Wash heavily contaminated clothing before reuse.

IF INHALED, Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Remove material from eyes, skin and clothing.

IF SWALLOWED, Induce vomiting only if person is conscious. Give 2-3 glasses of water to drink only if person is conscious. A physician or Poison Control Center can be contacted for advice.

#### **5. Fire Fighting Measures**

FLASH POINT: not combustible

HAZARDOUS DECOMPOSITION MATERIALS (FIRE CONDITIONS) oxides of phosphorus and sodium

EXTINGUISHING MEDIA: not applicable

UNUSUAL FIRE AND EXPLOSION HAZARDS: not combustible

#### **6. Accidental Release**

In case of spill, sweep, scoop or vacuum and remove and place in containers. If possible, complete cleanup on a dry basis. After all practical dry cleanup has been done flush residual spill area with water.

Refer to Section 13 for disposal information and Sections 14 and 15 for reportable quantity information.

#### **7. Handling and Storage**

HANDLING:

Avoid breathing dust.

Keep container closed.

Use only with adequate ventilation.

Avoid contact with eyes, skin and clothing.

Wash thoroughly after handling.

Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed.

STORAGE: Store in a cool, dry place to maintain product performance.

#### **8. Exposure Controls / Personal Protection**

EYE PROTECTION: This product does not cause significant eye irritation or eye toxicity requiring special protection. Use good industrial practice to avoid eye contact. Where there is significant potential for eye contact, wear chemical goggles and have eye flushing equipment available.

SKIN PROTECTION: Although this product does not present a significant skin concern, minimize skin contamination by following good industrial practice. Wearing protective gloves is recommended. Wash hands and contaminated skin thoroughly after handling.

RESPIRATORY PROTECTION: Avoid breathing dust. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure limits are exceeded (see below). Consult the respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory protection programs must comply with 29 C.F.R. 1910.134.

VENTILATION: Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits (see below). The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.

#### AIRBORNE EXPOSURE LIMITS:

OSHA and ACGIH have not established specific exposure limits for this material. However, OSHA and ACGIH have established limits for particulates not otherwise classified (PNOC) which are the least stringent exposure limits applicable to dusts.

#### OSHA PEL

5 mg/m<sup>3</sup> 8-hr. TWA

#### ACGIH TLV

5 mg/m<sup>3</sup> 8-hr. TWA

### **9. Physical and Chemical Properties**

Chemical Formula: proprietary

Appearance: white granular or powder

Odor: none

pH: 8 (as a 5% solution)

Melting Point: not available

Solubility in Water: complete

Max Use Level: 12 mg/L

NOTE: These physical data are typical values based on components tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

### **10. Stability and Reactivity**

STABILITY: Product is stable under normal conditions of storage and handling

MATERIALS TO AVOID: Moisture

HAZARDOUS DECOMPOSITION PRODUCTS: none known

HAZARDOUS POLYMERIZATION: will not occur

### **11. Toxicological Information**

The dry powder may cause foreign body irritation in some individuals. Excessive inhalation of dust may be annoying and can mechanically impede respiration. May cause upper respiratory tract irritation. Prolonged contact with the dry powder may cause drying or chapping of the skin.

Data from vendor of components in this material for single-dose (acute) animal studies are given below:

Oral - rat LD50 - 5,400 mg/kg; practically non-toxic

Dermal - rabbit LD50 - > 7,940 mg/kg; practically non-toxic

Eye Irritation - rabbit - 3.3/110.0; slightly irritating

Skin Irritation - rabbit - 0-0/8.0 (24-hr exp.); not irritating

Rats fed a component of this material in their diet for two years exhibited decreased growth, increased kidney/body weight ratios, and kidney changes. No birth defects were noted in rabbits given this component orally during pregnancy. No effects were seen on the ability of male and female rats to reproduce when fed this component for 3 successive generations. A component of this material has generally produced no genetic changes in a variety of standard tests using animals and animal or bacterial cells. Genetic changes were reported in a standard test using yeast cells.

Acute studies indicate that an ingredient of a component of this material is slightly toxic orally (rat) and practically nontoxic after skin application (rabbit). It is slightly irritating to rabbit eyes and nonirritating to rabbit skin. Rats fed this ingredient in their diet for four months showed a reduced weight gain, urinary changes, increased organ-to-body weight ratios, and slight kidney damage.

No birth defects were reported in rabbits, hamsters, mice or rats given this material orally during pregnancy. This ingredient produced no genetic changes in standard tests using bacterial and yeast cells.

## **12. Ecological Information**

The following information is based on data supplied by vendor of components in this material:

Invertebrate: 48-hr EC50 Daphnia magna: > 1000 mg/L; Practically Nontoxic

Available toxicity data for similar materials suggest that this material would be practically nontoxic to fish (LC50 or EC50 > 100 mg/L). No definitive algal data was available for this material.

Vendor has not conducted biodegradation studies with components in this product since when dissolved/hydrolyzed in water it yields completely mineralized materials.

## **13. Disposal Considerations**

This material when discarded is not a hazardous waste as that term is defined by the Resource, Conservation and Recovery Act (RCRA), 40 CFR 261. Dry material may be landfilled or recycled in accordance with local, state and federal regulations. Consult your attorney or appropriate regulatory officials for information on such disposal.

EPA Hazardous Waste: No

## **14. Transport Information**

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

This product is not regulated under DOT regulations.

## **15. Regulatory Information**

TSCA Inventory: Listed

SARA Hazard Classes: Fire, Reactive, Release, Acute Health or Chronic Health—NO

## **16. Other Information**

This material is certified to ANSI/NSF Standard 60 by NSF® International for use in potable water systems.

MSDS revised 12/30/05; this revision supersedes previous versions

Product Use: potable water treatment

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