

# บริษัท พลวัต อินเตอร์เคม จำกัด

2188 หมู่ 4 ซ. ศรีบุญเรื่อง 1 ถ.เทพารักษ์ อ.เมือง จ.สมุทรปราการ 10270 ว โทร. 02-3947030-40 แฟ็กซ์. 02-7556620, 02-3947041, 02-7101191



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# MATERIAL SAFETY DATA SHEET

Section 1. PRODUCT IDENTIFICATION

PRODUCT NAME:

WATERFLOC® WF-4000 Series

MSDS, NO.

P11-012

CHEMICAL DESCRIPTION:

Dry Ánionic Polymer

PRODUCT CLASS:

Water Treatment

### Section 2. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS

CAS

Chemical Name

Number

OSHA PEL

ACGIH TLV

\*No ingredients listed in this section\*

Section 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW \*

This product poses little or no immediate hazard.

PRIMARY ROUTES OF ENTRY: Eye contact, inhalation

TARGET ORGANS: None

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: This product is expected to cause eye irritation due to mechanical action.

SKIN CONTACT: The product is not expected to cause skin irritation upon contact. Data indicate that this product will not

produce an allergic skin reaction or be absorbed through the skin in harmful amounts.

INGESTION: This product would be expected to be practically non-toxic by ingestion. Swallowing this product may cause discomfort or gastrointestinal disturbance. Negligible amounts of polymer, if any, are expected to pass through the walls of the Gl tred

INHALATION: As with any particulate matter, inhalation of dust of this product may cause upper respiratory irritation due to mechanical action.

### SUBCHRONIC, CHRONIC:

No applicable information was found concerning any potential health effects resulting from subchronic or chronic exposure to the product.

Industrial, medical and environmental health surveys of personnel in plants manufacturing polyacrylamide show a very low degree of hazard from products substantially free of residual acrylamide monomer.

#### CARCINOGENICITY:

NTP:

"No ingredients listed in this section"

IARC:

\*No ingredients listed in this section\*

OSHA:

\*No ingredients listed in this section\*

HMIS RATINGS:

Health = 0

Flammability = 1

Reactivity = 0

Special Hazard = None

Hazard rating scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Severe

# Section 4. FIRST AID MEASURES

EYE CONTACT: Not expected to require first aid measures.

SKIN CONTACT: Not expected to require first aid measures.

INGESTION: Not an expected route of overexposure.

iNHALATION: Not an expected route of overexposure.

# Section 5. FIRE-FIGHTING MEASURES

FLASH POINT: > 200°F (TCC) This product is not flammable.

EXTINGUISHING MEDIA: Use extinguishing media appropriate for the surrounding fire.

FIRE-FIGHTING INSTRUCTIONS: Exercise caution when fighting any chemical fire. A self-contained breathing

apperatus and protective clothing are essential.

Avoid the use of water as product is very slippery when wetted.

FIRE & EXPLOSION HAZARD: Emits toxic gases under fire conditions.

### Section 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Wearing appropriate personal protective equipment, sweep up material and place into suitable container. Spilled product may make floor slippery; spills should be cleaned up immediately to prevent falls.

### Section 7. HANDLING AND STORAGE

HANDLING:

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the product

and cusure prompt removal from eyes, skin and clothing.

Avoid breathing dust.

Use with adequate ventilation.

Wash thoroughly after handling. Keep container closed when not in use.

STORAGE:

No specific information.

#### Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT:

EYE / FACE PROTECTION: Chemical splash goggles recommended as a good industrial hygiene practice.

SKIN PROTECTION:

No special requirement,

RESPIRATORY PROTECTION: If dusty conditions are encountered, wear a NIOSH approved dust respirator.

**ENGINEERING CONTROLS:** 

Local exhaust recommended if handling procedure is generating high dust concentrations.

# Section 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White granular powder

% VOLATILE BY WEIGHT: Negligible

pH: Not applicable

VAPOR DENSITY (air = 1): Not applicable

SPECIFIC GRAVITY: 1.00 - 1.20

VAPOR PRESSURE:

Very low

SOLUBILITY IN WATER: Complete

**BOILING POINT: Available** 

FREEZING POINT: Not available

## Section 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: No specific information.

INCOMPATIBILITY: Strong oxidizers

DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, oxides of nitrogen.

#### Section 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: No specific information.

INCOMPATIBILITY: Strong oxidizers.

DECOMPOSITION PRODUCTS: Thermal decomposition may produce carbon monoxide, carbon dioxide, and nitrogen oxides.

### Section 11. TOXICOLOGICAL INFORMATION

ON PRODUCT:

Oral LD<sub>50</sub> (rat): 2,800 mg/kg

ON INGREDIENTS:

Oral LD<sub>50</sub>

Dermal LD<sub>50</sub>

Chemical Name

(rat)

(rabbit)

\*No ingredients listed in this section\*

### Section 12. ECOLOGICAL INFORMATION

ON PRODUCT:

No information entered at this time.

ON INGREDIENTS:

Chemical Name

**Aquatic Toxicity Data** 

\* No ingredients listed in this section\*

### Section 13. DISPOSAL CONSIDERATIONS

RCRA STATUS: This product as sold would be considered a a RCRA Hazardous Waste.

DISPOSAL:

Disposed of in accordance with local, state and federal regulations.

### Section 14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Class/Division: Not restricted

Proper Shipping Name: Not applicable

ID Number: Not applicable

Label: None

# Section 15. REGULATORY INFORMATION

OSHA Hazard Communication Status: Nonhazardous

TSCA: The ingredients of this product are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLA reportable quantity of EPA hazardous substances in product:

Chemical

RQ

\*No ingredients listed in this section\*

Product RQ:

Not applicable

(Notify EPA of product spills exceeding this amount)

SARA TITLE III:

Section 302 Extremely Hazardous Substances:

Chemical Name

CAS#

RQ

TPQ

\*No ingrodients listed in this section\*

Section 311 and 312 Health and Physical Hazards:

Immediate

Delayed

Fire

Pressure

Reactivity

fnol

[no]

[no]

[no]

[no]

Section 313 Toxic Chemicals:

Chemical Name

CAS#

\*No ingredients listed in this section\*