

OptiStart/Plus

OSHA Haz Com Standard 29 CFR 1910.1200. Prepared to GHS Rev03.

SECTION 1: Identification

1.1. Product identifier

Product Form : Liquid
Product Name: : OptiStart/Plus

1.2. Recommended use / restrictions of use

: Agricultural fertilizer. No restrictions.

1.3. Details of the supplier of the data sheet

: Winfield Solutions, LLC P.O. Box 64589 St. Paul, MN 55164

Tel 1-855-494-6343 (Non-Emergency)

1.4. Emergency telephone number

Medical emergency number : 1-877-424-7452 (24 hrs)

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

: Skin irritant (H315), eye irritant (H320)

2.2. Label elements Hazard pictograms



GHS07

Signal word : Warning

Hazard statements : H315 – Causes skin irritation

H320 – Causes eye irritation

Precautionary statements : P280 – Wear protective gloves/eye protection

P305+P351 – If in eyes: Rinse cautiously with water for several minutes P337+P313 – If eye irritation persists: Get medical advice/attention

2.3. Other hazards

: No additional hazards

2.4. Unknown acute toxicity

: No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

: Not applicable

3.2. Mixture

Ingredient name	Product identifier (CAS No.)	%
Ammonium Polyphosphate	68333-79-9	43 - 45
Urea Ammonium Nitrate	15978-77-5	12 - 14
Potassium Thiosulfate	10294-66-3	15 - 17
Various micronutrients*	-	6.5
Water	7732-18-5	18 - 23

^{*}The specific chemical identity and concentrations have been withheld as a trade secret.

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Not considered to be an inhalation hazard.

First-aid measures after skin contact : Wash with water and soap. If irritation persists, seek medical attention.

First-aid measures after eye contact : Flush eyes with running water for at least 15 minutes. If irritation persists, seek

medical attention.

First-aid measures after ingestion : Give large amounts of water and induce vomiting. Call Poison Control Center or

seek medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : None.

Symptoms/injuries after skin contact : May cause slight skin irritation.

Symptoms/injuries after eye contact : May cause eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

: No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam, dry chemical, carbon dioxide, water fog.

Unsuitable extinguishing media : Water spray.

5.2. Special hazards arising from the substance or mixture

: Product is classified as non-flammable. However, ammonia fumes may form

from burning.

5.3. Advice for firefighters

Firefighting instructions : None.

Protection during firefighting : Wear positive pressure, self-contained breathing apparatus. Avoid fume

inhalation.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment, and emergency procedures

Protective equipment : Wear gloves and cover skin. Use eye protection.

Emergency procedures : None required.

6.2. Environmental precautions

: Prevent entry to sewers and public surface waters.

6.3. Methods and material for containment and cleaning up

Clean-up methods : Contain spill and pump into containers. Collect residue with absorbent material.

Store all spill materials in suitable containers for recycle/disposal.

6.4. Reference to other sections

: See Section 7 for safe handling information.

See Section 8 for PPE information. See Section 13 for disposal information.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safe handling precautions : Avoid contact with skin and eyes. After handling product, remove clothing and

launder, and wash hands/exposed skin thoroughly with soap and water. Avoid

breathing vapors. Avoid contamination of feed or foodstuffs.

Fire/explosion precautions : No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Storage is suitable in vessels of following materials: high density polyethylene

(HDPE), fiberglass, fiberglass reinforced plastic (FRP), stainless steel. Storage vessel must be able to accommodate the product density.

Incompatible materials : Slightly reactive with oxidizing agents, non-stainless steel metals, and alkalis.

7.3. Specific end use(s)

: No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ACGIH Threshold Limit Value : Not established.
OSHA Permissible Exposure Limit : Not established.

8.2. Exposure controls

Appropriate engineering controls : No special requirements.

Personal protective equipment : Hand, skin, eye.

Hand protection : Wear protective gloves. Glove material: Any.

Eye protection : Safety goggles or face shield.

Skin and body protection : Wear long sleeved clothing and other suitable clothing to prevent skin exposure.

Respiratory protection : Not normally needed. Product considered a non-inhalation hazard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

: Liquid Solubility : Soluble in water Physical state Color : Clear green Evaporation rate : Not determined Odor : No apparent odor Flammability : Non-flammable Odor threshold : No data available Flash point : Does not flash Boiling point : No data available Explosive limit (upper) : No data available : Not applicable : No data available Melting point Explosive limit (lower) : < 0° F Freezing point : No data available Auto ignition temp. Vapor pressure : No data available Decomposition temp. : No data available

Vapor density: No data availablePartition coefficient: No data availablepH: 5.3 - 5.5Viscosity, kinematic: No data availableSpecific gravity: 1.281Viscosity, dynamic: No data available

Density : 10.8 lbs/gal Octanol/Water Part. Coeff. : No data available

9.2. Other information

: No further information available.

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SECTION 10: Stability and reactivity

10.1. Reactivity

: No further relevant information available.

10.2. Chemical stability

: The product is stable under normal ambient conditions.

10.3. Possibility of hazardous reactions

: No further relevant information available.

10.4. Conditions to avoid

: No further relevant information available.

10.5. Incompatible materials

: Slightly reactive with oxidizing agents, non-stainless steel metals, and alkalis.

10.6. Hazardous decomposition products

: Burning may result in formation of ammonia fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Routes of exposure : Skin contact, eye contact, ingestion.

Skin corrosion/irritation : Causes slight skin irritation.

Eye damage/irritation : Causes eye irritation.

Acute toxicity : Not classified.

Carcinogenicity : Not classified.

Reproductive toxicity : Not classified.

LD50 : Not established.

Symptoms/injuries after skin contact : Causes slight skin irritation.

Symptoms/injuries after eye contact : Causes eye irritation.

Symptoms/injuries after inhalation : None. Not considered an inhalation hazard. Symptoms/injuries after ingestion : May cause stomach cramps and/or nausea.

NTP (National Toxicology Program) : Substance is not listed.
IARC (International Agency for : Substance is not listed.

Research on Cancer)

SECTION 12: Ecological information

12.1. Toxicity : No testing data available.

12.2. Persistence and degradability

: Aquatic toxicity: will release ammonium ions in water by hydrolysis. Ammonia

is toxic to aquatic organisms. Avoid spills/releases to surface waters.

12.3. Bioaccumulative potential

: No data available.

12.4. Mobility in soil

: Non-persistent when applied using normal agricultural practices.

12.5. Other adverse effects

: No further relevant information available.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Recycle excess product if possible. Avoid sewage and landfill disposal.

Waste containers : Do not use metal waste containers.

13.2. Reference to other sections

: See Section 8 for exposure control information.

: Not classified as a marine pollutant

SECTION 14: Transport information

14.1. Transport information

UN-Number : None

DOT, ADR, ADN, IATA, IMDG : Non-regulated material

UN proper shipping name : Not regulated for transportation

Transport hazard class : Not regulated

Class – DOT, ADR, ADN, IATA, IMDG : Non-regulated material Packing group – DOT, ADR, IMDG, IATA : Non-regulated material

Environmental hazards: Marine pollutant

IMDG

Transport in bulk according to Annex II of

MARPOL 73/78 and IBC code

Transport in bulk according to Annex II of

Special precautions for user : None

SECTION 15: Regulatory information

15.1. US Federal regulations

SARA 302 (EHS) : Product is not listed.

SARA 311-312 (TIER II) : Applicable.

SARA 313 (TRI) : Zinc compounds (0.5%), Manganese compounds (> 0.1%).

: Not applicable

15.2. International regulations

Canada : Product is listed on Domestic Substances List.

European Union : Product is not listed.

15.3. US State regulations

California Proposition 65 : Product is not listed.

SECTION 16: Other information

16.1. Other information

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