

**SECTION 1: Identification**

- 1.1. Product identifier  
 Product Form : Liquid  
 Product Name(s): : UL 18.4-0-0 (40%), UL 23-0-0 (50%)
- 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), respiratory irritant (H335)

- 2.2. Label elements  
 Hazard pictograms



GHS07

- Signal word : Warning
- Hazard statements : H315 – Causes skin irritation  
 H320 – Causes eye irritation  
 H335 – May cause respiratory irritation
- Precautionary statements : P261 – Avoid breathing gas/mist/vapors  
 P264 – Wash...thoroughly after handling  
 P271 – Use only outdoors or in a well-ventilated area  
 P280 – Wear protective gloves/protective clothing/eye protection/face protection  
 P302+P352 – If on skin: Wash with plenty of water/...  
 P304+P340 – If inhaled: Remove person to fresh air and keep comfortable for breathing  
 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.)	%
Urea	57-13-6	40 - 50
Water	7732-18-5	50 - 60

**SECTION 4: First aid measures**

## 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Call Poison Control Center or seek medical attention if you feel unwell.
- First-aid measures after skin contact : Wash with soap and large amounts of water. If irritation persists, seek medical attention.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses. If irritation persists, seek medical attention.
- First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth. Call Poison Control Center or seek medical attention immediately.

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

- Symptoms/injuries after inhalation : May cause respiratory irritation.
- 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.

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**SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

- Suitable extinguishing media : Foam, dry chemical, carbon dioxide, water spray, sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

## 5.2. Special hazards arising from the substance or mixture

: Product is classified as non-flammable. However, toxic fumes may form from burning.

## 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog to cool exposed containers.
- Protection during firefighting : Wear positive pressure, self-contained breathing apparatus. Avoid fume inhalation.
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**SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment, and emergency procedures

- Protective equipment : Wear gloves and cover skin. Use respiratory and eye/face protection.
- Emergency procedures : Ventilate area and evacuate unnecessary personnel.

## 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 laundry, 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. Store out of the sun in an area of moderate temperature (below 105°F).

Incompatible materials : Reactive with strong acids and strong bases.

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, respiratory.

Hand protection : Wear chemical gloves. Glove material: rubber or chemical-resistant.

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 : Wear appropriate mask and work in well ventilated area.

**SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Physical state	: Liquid	Evaporation rate	: Not determined
Color	: Clear	Flammability	: Non-flammable
Odor	: Slight ammonia	Flash point	: No data available
Odor threshold	: No data available	Explosive limit (upper)	: No data available
Boiling point	: 106°C / 223°F	Explosive limit (lower)	: No data available
Melting point	: Not applicable	Auto ignition temp.	: No data available
Freezing point	: 18°C / 64°F (salt-out)	Decomposition temp.	: No data available
Vapor pressure	: 220 mmHg	Partition coefficient	: No data available
Vapor density	: No data available	Viscosity, kinematic	: No data available
pH	: 7.0 – 10.0	Viscosity, dynamic	: No data available
Specific gravity	: 1.14 (50%)	Octanol/Water Part. Coeff.	: No data available
Density	: 9.51 lbs/gal		
Solubility	: Soluble in water		

9.2. Other information

: No further information available.

**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 : Direct sunlight. Extreme heat.
- 10.5. Incompatible materials : Strong oxidizers. Alkalis. Strong acids. Strong bases.
- 10.6. Hazardous decomposition products : Decomposition may produce oxides of nitrogen and ammonia.
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**SECTION 11: Toxicological information**

- 11.1. Information on toxicological effects
- Routes of exposure : Skin contact, eye contact, ingestion, inhalation.
- Skin corrosion/irritation : Causes skin irritation.
- Eye damage/irritation : Causes eye irritation.
- Acute toxicity : ATE US (oral) – 14,300 mg/kg.
- Carcinogenicity : Not classified.
- Reproductive toxicity : Not classified.
- LD50 : Rat (oral) – 14,300 mg/kg.
- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Causes eye irritation.
- Symptoms/injuries after inhalation : May cause respiratory irritation.
- Symptoms/injuries after ingestion : May cause stomach cramps and/or nausea.
- NTP (*National Toxicology Program*) : Substance is not listed.
- IARC (*International Agency for Research on Cancer*) : Substance is not listed.
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**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 at all 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.

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**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 : Not classified as a marine pollutant  
IMDG  
Transport in bulk according to Annex II of MARPOL 73/78 and IBC code : Not applicable  
Special precautions for user : None

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**SECTION 15: Regulatory information**

## 15.1. US Federal regulations

SARA 302 (EHS) : Product is not listed.  
SARA 311-312 (TIER II) : Applicable (Urea).  
SARA 313 (TRI) : Product is not listed.

## 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.

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**SECTION 16: Other information**

## 16.1. Other information

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