

Simplot Grower Solutions UAN 32% 32-0-0

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 5/5/2022 Revision date: 4/23/2025 Supersedes: 5/5/2022 Version: 2.0

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : Simplot Grower Solutions UAN 32% 32-0-0
Product code : M80465

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

No additional information available

1.4. Supplier's details

Simplot AB Retail, Inc., DBA Simplot Grower Solutions
P.O. Box 9296
Boise, ID, 83707

1.5. Emergency phone number

Emergency number : CHEMTREC 1-800-424-9300

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Serious eye damage/eye irritation, Category 2B H320 Causes eye irritation.
Full text of H statements : see section 16

2.2. Label elements

GHS US labeling

Signal word (GHS US) : Warning
Hazard statements (GHS US) : H320 - Causes eye irritation
Precautionary statements (GHS US) : P264 - Wash hands, forearms and face thoroughly after handling.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 - If eye irritation persists: Get medical advice or attention.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

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SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|------------------|--------------------|------|-----------------------|
| ammonium nitrate | CAS-No.: 6484-52-2 | 45.2 | Eye Irrit. 2B, H320 |
| urea (57-13-6) | CAS-No.: 57-13-6 | 20 | Eye Irrit. 2B, H320 |

Full text of hazard classes and H-statements : see section 16

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

| | |
|---------------------------------------|--|
| First-aid measures general | : If you feel unwell, seek medical advice. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Call a poison center/doctor/physician if you feel unwell. |

4.2. Most important symptoms/effects, acute and delayed

| | |
|-------------------------------------|---------------------------------|
| Symptoms/effects after inhalation | : None under normal conditions. |
| Symptoms/effects after skin contact | : None under normal conditions. |
| Symptoms/effects after eye contact | : Mild eye irritation. |
| Symptoms/effects after ingestion | : None under normal conditions. |

4.3. Indication of immediate medical attention and special treatment needed, if necessary

| | |
|-----------------------------------|--------------------------|
| Other medical advice or treatment | : Treat symptomatically. |
|-----------------------------------|--------------------------|

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. Carbon dioxide. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Specific hazards arising from the chemical

| | |
|--|--------------------------------|
| Fire hazard | : No fire hazard. |
| Explosion hazard | : No direct explosion hazard. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |

5.3. Special protective equipment and precautions for fire-fighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

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SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.
Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.
Environmental precautions : Avoid release to the environment.

6.2. Methods and materials for containment and cleaning up

For containment : Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.
Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

For further information refer to section 13

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

7.2. Conditions for safe storage, including incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.
Storage conditions : Keep cool. Protect from sunlight.
Packaging materials : Store always product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Personal protective equipment:

Wear recommended personal protective equipment.

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| |
|--|
| Hand protection: |
| Protective gloves |
| Eye protection: |
| Safety glasses |
| Skin and body protection: |
| Wear suitable protective clothing |
| Respiratory protection: |
| In case of insufficient ventilation, wear suitable respiratory equipment |

Personal protective equipment symbol(s):



SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

| | |
|---|--|
| Physical state | : Liquid |
| Color | : Colorless Commonly dyed blue or green |
| Odor | : There may be no odor warning properties, odor is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odor: Odourless In moist air: Ammonia odour |
| Odor threshold | : No data available |
| pH | : 6.5 – 7 |
| Melting point | : Not applicable |
| Freezing point | : No data available |
| Boiling point | : 122 °C |
| Flash point | : non-flammable |
| Flammability (solid, gas) | : Not applicable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20°C | : No data available |
| Relative density | : No data available |
| Solubility | : Complete. |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Explosion limits | : No data available |
| Particle characteristics | : No data available |

| | |
|--------------------------|-------------------|
| ammonium nitrate | |
| Particle characteristics | No data available |

| | |
|--------------------------|-------------------|
| urea (57-13-6) | |
| Particle characteristics | No data available |

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

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SECTION 10 Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| ammonium nitrate (6484-52-2) | |
|------------------------------|---|
| LD50 oral rat | 2950 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral) |
| LD50 dermal rat | > 5000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat | > 88.8 mg/l (4 h, Rat, Inconclusive, insufficient data, Inhalation (dust)) |
| ATE US (oral) | 2950 mg/kg body weight |

| urea (57-13-6) (57-13-6) | |
|--------------------------|--|
| LD50 oral rat | 8471 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 14300 mg/kg bodyweight; Rat; Experimental value) |
| LD50 dermal rat | > 3200 mg/kg (Rat; Literature study) |
| LD50 dermal rabbit | > 21000 mg/kg (Rabbit; Literature study) |
| ATE US (oral) | 8471 mg/kg body weight |

Skin corrosion/irritation : Not classified
pH: 6.5 – 7

| ammonium nitrate (6484-52-2) | |
|------------------------------|------------------|
| pH | 5.43 (0.1 mol/l) |

| urea (57-13-6) (57-13-6) | |
|--------------------------|------------|
| pH | 7.2 (10 %) |

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Serious eye damage/irritation : Causes eye irritation.
pH: 6.5 – 7

| ammonium nitrate (6484-52-2) | |
|------------------------------|------------------|
| pH | 5.43 (0.1 mol/l) |
| urea (57-13-6) (57-13-6) | |
| pH | 7.2 (10 %) |

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

| Simplot Grower Solutions UAN 32% 32-0-0 | |
|---|---------------------------------|
| Viscosity, kinematic | No data available |
| ammonium nitrate (6484-52-2) | |
| Viscosity, kinematic | Not applicable (solid) |
| urea (57-13-6) (57-13-6) | |
| Viscosity, kinematic | Not applicable (solid) |
| Symptoms/effects after inhalation | : None under normal conditions. |
| Symptoms/effects after skin contact | : None under normal conditions. |
| Symptoms/effects after eye contact | : Mild eye irritation. |
| Symptoms/effects after ingestion | : None under normal conditions. |

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Not classified

| ammonium nitrate (6484-52-2) | |
|------------------------------|--|
| LC50 - Fish [1] | 447 mg/l (48 h, Cyprinus carpio, Semi-static system, Fresh water, Experimental value, Lethal) |
| EC50 - Crustacea [1] | 490 mg/l (48 h, Daphnia magna, Fresh water, Experimental value) |
| ErC50 algae | > 1700 mg/l (10 day(s), Diatomeae, Static system, Salt water, Experimental value, Nominal concentration) |
| urea (57-13-6) (57-13-6) | |
| LC50 - Fish [1] | > 6810 mg/l (96 h; Leuciscus idus; Nominal concentration) |
| EC50 - Crustacea [1] | > 10000 mg/l (48 h; Daphnia magna; Nominal concentration) |

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| urea (57-13-6) (57-13-6) | |
|---|--|
| LC50 - Fish [2] | 17500 mg/l (96 h; Poecilia reticulata) |
| EC50 - Crustacea [2] | > 10000 mg/l (24 h; Daphnia magna) |
| EC50 72h - Algae [1] | 24541.9 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum) |
| EC50 96h - Algae [1] | 42184 mg/l Source: Ecological Structure Activity Relationships |
| TLM - Fish [1] | 17500 ppm (96 h; Poecilia reticulata) |
| Threshold limit - Other aquatic organisms [1] | 120000 mg/l (16 h; Bacteria; Toxicity test) |
| Threshold limit - Other aquatic organisms [2] | > 10000 mg/l (Pseudomonas putida) |
| Threshold limit - Algae [1] | > 10000 mg/l (168 h; Scenedesmus quadricauda; Growth rate) |
| Threshold limit - Algae [2] | 47 mg/l (192 h; Microcystis aeruginosa; Growth rate) |

12.2. Persistence and degradability

| Simplot Grower Solutions UAN 32% 32-0-0 | |
|---|---|
| Persistence and degradability | Rapidly degradable |
| ammonium nitrate (6484-52-2) | |
| Persistence and degradability | Biodegradable in water, Biodegradable in the soil, Not established. |
| urea (57-13-6) (57-13-6) | |
| Persistence and degradability | Inherently biodegradable, Hydrolysis in water, Not established. |
| ThOD | 0.27 g O ₂ /g substance |

12.3. Bioaccumulative potential

| ammonium nitrate (6484-52-2) | |
|---|--|
| Bioaccumulative potential | Bioaccumulation: not applicable. Not established. |
| urea (57-13-6) (57-13-6) | |
| BCF - Fish [1] | 1 (72 h; Brachydanio rerio; Fresh water) |
| BCF - Other aquatic organisms [1] | 11700 (Chlorella sp.) |
| Partition coefficient n-octanol/water (Log Pow) | < -1.73 (Experimental value; EU Method A.8: Partition Coefficient) |
| Bioaccumulative potential | Bioaccumulation: not applicable. Not established. |

12.4. Mobility in soil

| ammonium nitrate (6484-52-2) | |
|--|---|
| Surface tension | No data available (test not performed) |
| Ecology - soil | No (test)data on mobility of the substance available. |
| urea (57-13-6) (57-13-6) | |
| Surface tension | No data available in the literature |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | -1.43 – -1.19 (log Koc, Calculated value) |
| Ecology - soil | Highly mobile in soil. |

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12.5. Other adverse effects

Ozone : Not classified
Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.
Additional information : Do not re-use empty containers.

SECTION 14 Transport information

14.1. UN number

UN-No. (DOT) : Not applicable
UN-No. (TDG) : Not applicable
UN-No. (IMDG) : Not applicable
UN-No. (IATA) : Not applicable

14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Not applicable
Proper Shipping Name (TDG) : Not applicable
Proper Shipping Name (IMDG) : Not applicable
Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

DOT
Transport hazard class(es) (DOT) : Not applicable

TDG
Transport hazard class(es) (TDG) : Not applicable

IMDG
Transport hazard class(es) (IMDG) : Not applicable

IATA
Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Transport in bulk

Not applicable

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14.7. Special precautions for user

DOT

Not applicable

TDG

Not applicable

IMDG

Not applicable

IATA

Not applicable

SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

15.2. International regulations

CANADA

ammonium nitrate (6484-52-2)

Listed on the Canadian DSL (Domestic Substances List)

urea (57-13-6) (57-13-6)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

urea (57-13-6) (57-13-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

| Component | State or local regulations |
|-----------------------------|---|
| ammonium nitrate(6484-52-2) | U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List |

SECTION 16 Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 4/23/2025

Issue date : 5/5/2022

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| Full text of hazard classes and H-statements | |
|--|-----------------------|
| H320 | Causes eye irritation |

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.