

Simplot Turf & Horticulture 24-4-12 Multi Green

Safety Data Sheet

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

Date of issue: 03/28/2024

Revision date: 07/01/2024

Version: 1.3

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Simplot Turf & Horticulture 24-4-12 Multi Green
Product code : M59967

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Fertiliser

1.3. Supplier

Simplot AB Retail, Inc., DBA Simplot Turf and Horticulture
P.O. Box 9296
Boise, ID 83707

1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

| | |
|---|--|
| Acute toxicity (oral) Category 4 | H302 Harmful if swallowed |
| Skin corrosion/irritation Category 2 | H315 Causes skin irritation |
| Serious eye damage/eye irritation Category 2 | H319 Causes serious eye irritation |
| Carcinogenicity Category 1A | H350 May cause cancer |
| Specific target organ toxicity (single exposure) Category 3 | H335 May cause respiratory irritation |
| Specific target organ toxicity (repeated exposure) Category 2 | H373 May cause damage to organs through prolonged or repeated exposure |

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Danger

Hazard statements (GHS US) :

H302 - Harmful if swallowed
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation
H350 - May cause cancer
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US) :

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell
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+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313 - If exposed or concerned: Get medical advice/attention.
P312 - Call a poison center or doctor if you feel unwell
P314 - Get medical advice/attention if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label)
P330 - Rinse mouth.

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P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container to ...in accordance with local/regional/national regulations

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS US classification |
|---------------------------|---------------------|-------|---|
| formaldehyde/urea, resins | (CAS-No.) 9011-05-6 | 10-30 | Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335 |
| Monoammonium Phosphate | (CAS-No.) 7722-76-1 | 1-10 | Eye Irrit. 2B, H320 STOT SE 3, H335 |
| Iron Sucrate | (CAS-No.) 8047-67-4 | 1-10 | Acute Tox. 3 (Oral), H301 Carc. 2, H351 |
| urea (57-13-6) | (CAS-No.) 57-13-6 | 2-10 | Eye Irrit. 2B, H320 |

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention. Call a poison center/doctor/physician if you feel unwell.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Call a poison center/doctor/physician if you feel unwell.
- First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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 : Do NOT induce vomiting. Obtain emergency medical attention. Rinse mouth. Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

- Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.
- Symptoms/effects after inhalation : May cause respiratory irritation.
- Symptoms/effects after skin contact : Causes skin irritation. Irritation.
- Symptoms/effects after eye contact : Causes eye irritation. Eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

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

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5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel. Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product. On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

Hygiene measures : Wash hands, forearms and face thoroughly after handling. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available

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| |
|---|
| formaldehyde/urea,resins (9011-05-6) |
| No additional information available |
| urea (57-13-6) (57-13-6) |
| No additional information available |
| Monoammonium Phosphate (7722-76-1) |
| No additional information available |
| Iron Sucrate (8047-67-4) |
| 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/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses. Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask. Wear respiratory protection.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state | : Solid |
| Appearance | : Granules. |
| Color | : Mixture contains one or more component(s) which have the following colour(s): Colourless or white Colorless Colourless to white Commercial substance: grey-green White Colourless-white Unpurified: grey-brown |
| Odor | : There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour: Mild odour Odourless In moist air: Ammonia odour |
| Odor threshold | : No data available |
| pH | : No data available |
| Melting point | : No data available |
| Freezing point | : Not applicable |
| Boiling point | : No data available |
| Flash point | : Not applicable |
| Relative evaporation rate (butyl acetate=1) | : No data available |
| Flammability (solid, gas) | : Non flammable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : No data available |

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| | |
|---|---------------------|
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosion limits | : Not applicable |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |

9.2. Other information

No additional information available

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

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|-----------------------------|-------------------------|
| Acute toxicity (oral) | : Harmful if swallowed. |
| Acute toxicity (dermal) | : Not classified |
| Acute toxicity (inhalation) | : Not classified |

| | |
|---------------|----------------------------|
| ATE US (oral) | 1809.359 mg/kg body weight |
|---------------|----------------------------|

| formaldehyde/urea,resins (9011-05-6) | |
|--------------------------------------|--------------------|
| LD50 oral rat | 8394 mg/kg (Rat) |
| LD50 dermal rat | > 2100 mg/kg (Rat) |

| 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) |

| Monoammonium Phosphate (7722-76-1) | |
|------------------------------------|-----------------------|
| LD50 oral rat | 5750 mg/kg (Rat) |
| LD50 dermal rabbit | > 7940 mg/kg (Rabbit) |

| | |
|-----------------------------------|----------------------------------|
| Skin corrosion/irritation | : Causes skin irritation. |
| Serious eye damage/irritation | : Causes serious eye irritation. |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : May cause cancer. |

| Iron Sucrate (8047-67-4) | |
|--------------------------|----------------------|
| IARC group | 3 - Not classifiable |

| | |
|-----------------------|------------------|
| Reproductive toxicity | : Not classified |
|-----------------------|------------------|

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Specific target organ toxicity – single exposure : May cause respiratory irritation.

| formaldehyde/urea,resins (9011-05-6) | |
|--|-----------------------------------|
| Specific target organ toxicity – single exposure | May cause respiratory irritation. |

| Monoammonium Phosphate (7722-76-1) | |
|--|-----------------------------------|
| Specific target organ toxicity – single exposure | May cause respiratory irritation. |

Specific target organ toxicity – repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Potential Adverse human health effects and symptoms : Based on available data, the classification criteria are not met.

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation. Irritation.

Symptoms/effects after eye contact : Causes eye irritation. Eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

| formaldehyde/urea,resins (9011-05-6) | |
|---|--|
| LC50 fish 1 | > 500 mg/l (96 h; Leuciscus idus; Estimated value) |
| EC50 Daphnia 1 | 65000 mg/l (Daphnia magna; QSAR) |

| urea (57-13-6) (57-13-6) | |
|---|--|
| LC50 fish 1 | > 6810 mg/l (96 h; Leuciscus idus; Nominal concentration) |
| EC50 Daphnia 1 | > 10000 mg/l (48 h; Daphnia magna; Nominal concentration) |
| LC50 fish 2 | 17500 mg/l (96 h; Poecilia reticulata) |
| EC50 Daphnia 2 | > 10000 mg/l (24 h; Daphnia magna) |
| 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) |

| Monoammonium Phosphate (7722-76-1) | |
|---|-------------------------------------|
| LC50 fish 1 | 155 ppm (96 h; Pimephales promelas) |

12.2. Persistence and degradability

| Simplot Turf & Horticulture 24-4-12 Multi Green | |
|--|------------------|
| Persistence and degradability | Not established. |

| formaldehyde/urea,resins (9011-05-6) | |
|---|--|
| Persistence and degradability | Not readily biodegradable in water. 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 |

| Monoammonium Phosphate (7722-76-1) | |
|---|--|
| Persistence and degradability | Biodegradability in water: no data available. Not established. |

| Iron Sucrate (8047-67-4) | |
|---------------------------------|------------------|
| Persistence and degradability | Not established. |

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12.3. Bioaccumulative potential

| Simplot Turf & Horticulture 24-4-12 Multi Green | |
|---|--|
| Bioaccumulative potential | Not established. |
| formaldehyde/urea,resins (9011-05-6) | |
| Bioaccumulative potential | No bioaccumulation data available. 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. |
| Monoammonium Phosphate (7722-76-1) | |
| Bioaccumulative potential | Not bioaccumulative. Not established. |
| Iron Sucrate (8047-67-4) | |
| Bioaccumulative potential | Not established. |

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid unintentional release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials : Avoid unintentional release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Other information : No supplementary information available.

Transportation of Dangerous Goods

Transport by sea

Air transport

SECTION 15: Regulatory information

15.1. US Federal regulations

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All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

| Iron Sucrate | CAS-No. 8047-67-4 | 1-10% |
|--------------------------------------|---|-------|
| formaldehyde/urea,resins (9011-05-6) | | |
| EPA Labeling Requirements | XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711). | |

15.2. International regulations

CANADA

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formaldehyde/urea,resins (9011-05-6)

Listed on the Canadian DSL (Domestic Substances List)

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

Listed on the Canadian DSL (Domestic Substances List)

Monoammonium Phosphate (7722-76-1)

Listed on the Canadian DSL (Domestic Substances List)

Iron Sucrate (8047-67-4)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US 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

SECTION 16: Other information

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

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Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H-phrases:

| | |
|------|---|
| H301 | Toxic if swallowed |
| H302 | Harmful if swallowed |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H320 | Causes eye irritation |
| H335 | May cause respiratory irritation |
| H350 | May cause cancer |
| H351 | Suspected of causing cancer |
| H373 | May cause damage to organs through prolonged or repeated exposure |

SDS US (GHS HazCom 2012)

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.