



SAFETY DATA SHEET

Issue Date: 05-Oct-2020

Revision Date: 15-Jul-2021

Version 2

1. Identification

Product identifier

Product Name: Monty's Seed Starter/Foliar

Other means of identification

Product Code: 415

Recommended use of the chemical and restrictions on use

Recommended Use: Agricultural Applications or Further Manufacturing Use

Restrictions on Use: None known

Details of the supplier of the safety data sheet

Manufacturer: Monty's Plant Food Co Inc.
4800 Strawberry Lane
Louisville, KY 40209
502-489-9888

Emergency telephone number

Emergency Telephone: 1-502-489-9888

2. Hazard(s) identification

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Signal word: None

Hazard statements:

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

As part of good industrial and personal hygiene and safety procedure, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes and clothing.

Unknown Acute toxicity: Not applicable

Other Information

Not applicable

3. Composition/information on ingredients

| Chemical name | CAS No | Weight-% |
|-----------------|--------------|-------------|
| Trade Secret 1 | Trade secret | Proprietary |
| Trade Secret 2 | Trade secret | Proprietary |
| Trade Secret 3 | Trade secret | Proprietary |
| Trade Secret 4 | Trade secret | Proprietary |
| Trade Secret 5 | Trade secret | Proprietary |
| Trade Secret 6 | Trade secret | Proprietary |
| Trade Secret 7 | Trade secret | Proprietary |
| Trade Secret 8 | Trade secret | Proprietary |
| Trade Secret 9 | Trade secret | Proprietary |
| Trade Secret 10 | Trade secret | Proprietary |

If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General advice

Show this safety data sheet to the doctor in attendance.

Inhalation

Remove to fresh air. If symptoms persist, call a physician. Overexposure may be irritating to the respiratory system.

Eye contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Do not attempt to neutralize with chemical agents. Oils/ointments should not be used at this time.

Skin contact

Wash off immediately with soap and plenty of water for at least 15 minutes. Take off contaminated clothing and wash before reuse. Destroy or thoroughly clean contaminated shoes. Do not attempt to neutralize with chemical agents. Oils/ointments should not be used at this time. Chemical burns must be treated promptly by a physician.

Ingestion

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Most important symptoms and effects, both acute and delayed

Symptoms

No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians

Treat symptomatically. Symptoms may be delayed.

5. Fire-fighting measures

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Large Fire

CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media

Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Contact with metals may evolve flammable hydrogen gas. Thermal decomposition can lead to release of irritating and toxic gases and vapors. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous combustion products

Carbon oxides. Phosphorus oxides. Nitrogen oxides (NO_x). Potassium Oxides. Ammonia. Oxides of sulfur. Hazardous metal fumes and oxides. Cyanuric acid.

Explosion Data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Personal precautions Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Other information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up
Methods for containment Prevent further leakage or spillage if safe to do so. Keep out of drains, sewers, ditches and waterways.

Methods for cleaning up Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly. After cleaning, flush away traces with water.

7. Handling and storage

Precautions for safe handling
Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities
Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Materials Reducing agent. Strong oxidizing agents, strong acids, and strong bases. Sodium hypochlorite. Metals. Peroxides. Chlorinated compounds. Halogens.

Packaging materials Avoid containers, piping or fittings made of brass, bronze, or other copper bearing alloys or galvanized metal.

8. Exposure controls/personal protection

Control parameters
Exposure Limits The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|----------------|-----------------------------|---------------------------------------|-----------------------------|
| Trade Secret 6 | TWA: 1 mg/m ³ Fe | (vacated) TWA: 1 mg/m ³ Fe | TWA: 1 mg/m ³ Fe |

Appropriate engineering controls
Engineering controls Showers
 Eyewash stations
 Ventilation systems.

Individual protection measures, such as personal protective equipment
Eye/face protection Tight sealing safety goggles.

Hand protection Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water. Local authorities should be advised if significant spillages cannot be contained.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical State: Liquid
Appearance: Opaque
Color: Brown to black
Odor: No information available
Odor Threshold: No information available

pH:

pH Range: 6.5-7.5 (neat)
Salt Out Point: No information available
Melting Point/Freezing Point: No information available
Boiling Point/Boiling Range: No information available
Flash Point: No information available
Evaporation Rate (BuAc=1): No information available
Flammability (solid, gas): No information available
Flammability Limits in Air: No information available
Vapor Pressure (mm Hg): No information available
Vapor density (Air =1): No information available
Specific Gravity (H₂O=1): 1.367
Water Solubility: No information available
Solubility(ies): No information available
Partition Coefficient (n-octanol/water): No information available
Autoignition Temperature: No information available
Decomposition Temperature: No information available
Kinematic Viscosity: No information available
Dynamic Viscosity: No information available

Other information

Explosive properties No information available
Oxidizing properties No information available
Molecular Weight: N/A

10. Stability and reactivity

Reactivity Reacts with nitrites, inorganic chlorides, chlorites, perchlorates, and strong oxidizers to generate heat, fire or explosions, or release toxic fumes.

Chemical stability Hygroscopic. Decomposes on heating. When heated, urea releases ammonia, nitrogen oxides, and cyanuric acid.

Possibility of hazardous reactions If mixed with chlorine or hypochlorites, it may form nitrogen trichloride which may explode spontaneously in air. Urea will form urea nitrate when mixed with nitric acid at low pH.

Conditions to avoid Extremes of temperature and direct sunlight. Exposure to air or moisture over prolonged periods.

Incompatible Materials Reducing agent. Strong oxidizing agents, strong acids, and strong bases. Sodium hypochlorite. Metals. Peroxides. Chlorinated compounds. Halogens.

Hazardous decomposition products Carbon oxides. Nitrogen oxides (NO_x). Metal oxides. Phosphorus oxides. Potassium Oxides. Ammonia. Sulfur oxides. Cyanuric acid.

11. Toxicological information

Information on likely routes of exposure

Product Information

| | |
|---------------------|---|
| Inhalation | Specific test data for the substance or mixture is not available. |
| Eye contact | Specific test data for the substance or mixture is not available. |
| Skin contact | Specific test data for the substance or mixture is not available. |
| Ingestion | Specific test data for the substance or mixture is not available. |

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Numerical measures of toxicity

Acute Toxicity:

The following values are calculated based on chapter 3.1 of the GHS document

| | |
|------------------------|-----------------|
| ATEmix (oral) | 6,367.20 mg/kg |
| ATEmix (dermal) | 10,938.69 mg/kg |

Component Information

| Chemical name | Oral LD ₅₀ : | Dermal LD ₅₀ : | LC ₅₀ (Lethal Concentration): |
|-----------------|-------------------------|---------------------------|--|
| Trade Secret 1 | - | > 5000 mg/kg (Rabbit) | - |
| Trade Secret 2 | = 3200 mg/kg (Rat) | - | > 0.83 mg/L (Rat) 4 h |
| Trade Secret 3 | > 2000 mg/kg (Rat) | > 5000 mg/kg (Rabbit) | > 5 mg/L (Rat) 4 h |
| Trade Secret 4 | = 5750 mg/kg (Rat) | > 7940 mg/kg (Rabbit) | - |
| Trade Secret 7 | = 1950 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | - |
| Trade Secret 9 | = 8471 mg/kg (Rat) | - | - |
| Trade Secret 10 | > 90 mL/kg (Rat) | - | - |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Other Adverse Effects: No information available.

12. Ecological information

Ecotoxicity The environmental impact of this product has not been fully investigated.

| Chemical name | Toxicity to algae | Toxicity to fish | Toxicity to microorganisms | Toxicity to daphnia and other aquatic invertebrates |
|----------------|-------------------|---|----------------------------|---|
| Trade Secret 3 | - | 26.5 mg/L (LC50 96 h - Oncorhynchus mykiss) 24.8 - 29.4 mg/L (LC50 96 h flow-through - Oncorhynchus mykiss) 3.3 mg/L (LC50 96 h - Pimephales promelas) 33 mg/L (LC50 96 h static - Pimephales promelas) | - | - |
| Trade Secret 4 | - | 85.9 mg/L (LC50 96 h static - Oncorhynchus mykiss) | - | - |
| Trade Secret 9 | - | 16200 - 18300 mg/L (LC50 96 h - Poecilia reticulata) | - | 3910 mg/L (EC50 48 h Static - Daphnia magna) |

Persistence and Degradability: No information available.

Bioaccumulation: There is no data for this product.

Component Information

| Chemical name | Partition Coefficient: |
|----------------|------------------------|
| Trade Secret 9 | -1.59 |

Mobility: No information available.

Other Adverse Effects: No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused products

Dispose of in accordance with local, state, and national regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Do not reuse empty containers.

14. Transport information

DOT

Description

Not DOT Regulated

15. Regulatory information

International Inventories

| Chemical name | TSCA | AICS | DSL | NDSL | EINECS | ELINCS | ENCS | IECSC | KECL | PICCS |
|----------------|---------|---------|---------|------|---------|--------|---------|---------|---------|---------|
| Trade Secret 1 | Present | Present | Present | - | Present | - | Present | Present | Present | Present |

| | | | | | | | | | | |
|-----------------|-------------------|---------|---------|---------|---------|---|---------|---------|---------|---------|
| | ACTIVE | | | | | | | | | |
| Trade Secret 2 | Present ACTIVE | Present | Present | - | Present | - | Present | Present | Present | Present |
| Trade Secret 3 | Present ACTIVE | Present | Present | - | Present | - | Present | Present | Present | Present |
| Trade Secret 4 | Present ACTIVE | Present | Present | - | Present | - | Present | Present | Present | Present |
| Trade Secret 5 | Present ACTIVE | - | - | Present | Present | - | - | Present | - | - |
| Trade Secret 6 | Present ACTIVE | Present | Present | - | Present | - | Present | Present | Present | Present |
| Trade Secret 8 | Present ACTIVE | - | - | Present | Present | - | - | Present | - | Present |
| Trade Secret 7 | Present ACTIVE | Present | Present | - | Present | - | Present | Present | Present | Present |
| Trade Secret 10 | Present ACTIVE | Present | Present | - | Present | - | Present | Present | Present | Present |
| Trade Secret 9 | Present ACTIVE | Present | Present | - | Present | - | Present | Present | Present | Present |

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

AICS - Australian Inventory of Chemical Substances

DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name | SARA 313 - Threshold Values % |
|----------------|-------------------------------|
| Trade Secret 3 | 1.0 |
| Trade Secret 4 | 1.0 |
| Trade Secret 6 | 1.0 |
| Trade Secret 7 | 1.0 |

SARA 311/312 Hazard Categories

Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 and later calendar years will need to be consistent with updated hazard classifications.

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Clean Water Act (CWA)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|----------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Trade Secret 8 | - | X | - | - |

| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

OSHA - Process Safety Management - Highly Hazardous Chemicals

This product does not contain any substances regulated under Process Safety Management (29 CFR 1910.119).

Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS)

This product does not contain any substances regulated under the Chemical Facility Anti-Terrorism Standards (6 CFR 27).

16. Other information

Prepared By: Compliance Department
Issue Date: 05-Oct-2020
Revision Date: 15-Jul-2021
Revision Note: Reviewed and Re-issued.

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet