SAFETY DATA SHEET

Issue Date: 29-Mar-2022 **Revision Date:** 29-Mar-2022 **Version** 1

1. Identification

Product identifier
Product Name: Monty's Hay-Now 7-9-5

Other means of identification
Product Code: 50679

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: 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
Trade Secret 11	Trade secret	Proprietary
Trade Secret 12	Trade secret	Proprietary
Trade Secret 13	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.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. If eye irritation persists: Get medical advice/attention. 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. Do NOT induce vomiting. 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. Flammable ammonia gas may be released in a fire. Non-combustible, substance itself does not burn but may decompose upon heating to produce corrosive and/or toxic fumes. Cool drums with water spray. Do not allow run-off from fire-fighting to enter drains or water courses.

Hazardous combustion products Phosphorus oxides. Potassium Oxides. Nitrogen oxides (NO_x). Ammonia. Carbon oxides. Oxides of sulfur.

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 Strong acids. Strong oxidizing agents, strong acids, and strong bases. Sodium hypochlorite. Metals. Reducing agent. Peroxides.

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 10	TWA: 1 mg/m³ Fe	(vacated) TWA: 1 mg/m³ Fe	TWA: 1 mg/m³ Fe
Trade Secret 12	TWA: 17 mg/m³	-	-
Ammonia 7664-41-7	STEL: 35 ppm TWA: 25 ppm	TWA: 50 ppm TWA: 35 mg/m³ (vacated) STEL: 35 ppm (vacated) STEL: 27 mg/m³	IDLH: 300 ppm TWA: 25 ppm TWA: 18 mg/m³ STEL: 35 ppm STEL: 27 mg/m³

Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

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:	No information available
Color:	No information available
Odor:	No information available
Odor Threshold:	No information available
pH:	No information available
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 (H_2O=1):	No information available
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	No information available.
Chemical stability	Hygroscopic.
Possibility of hazardous reactions	Releases flammable ammonia gas when heated. May react with oxidizers - danger of explosion.
Conditions to avoid	Extremes of temperature and direct sunlight. Exposure to air or moisture over prolonged periods. Keep away from open flames, hot surfaces and sources of ignition.

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

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

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) 7,371.00 mg/kg

ATEmix (dermal) 8,160.99 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	> 2000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 5 mg/L (Rat) 4 h
Trade Secret 3	= 5750 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	-
Trade Secret 4	= 3200 mg/kg (Rat)	-	> 0.83 mg/L (Rat) 4 h
Trade Secret 6	= 1950 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Trade Secret 7	= 2840 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Trade Secret 12	= 350 mg/kg (Rat)	-	-
Trade Secret 13	> 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 See section 2 for classified hazards based on component information.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Trade Secret 8	-	Group 3	-	-

IARC (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans

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 2	-	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 3	-	85.9 mg/L (LC50 96 h static - Oncorhynchus mykiss)	-	-
Trade Secret 7	-	250 mg/L (LC50 96 h - Brachydanio rerio) 480 mg/L (LC50 96 h flow-through - Brachydanio rerio) 420 mg/L (LC50 96 h semi-static - Brachydanio rerio) 18 mg/L (LC50 96 h - Cyprinus carpio) 32.2 - 41.9 mg/L (LC50 96 h flow-through - Oncorhynchus mykiss) 5.2 - 8.2 mg/L (LC50 96 h static - Oncorhynchus mykiss) 100 mg/L (LC50 96 h - Pimephales promelas) 123 - 128 mg/L (LC50 96 h semi-static - Poecilia reticulata) 126 mg/L (LC50 96 h - Poecilia reticulata)	-	14 mg/L (LC50 48 h - Daphnia magna)
Trade Secret 12	-	8.2 mg/L (LC50 96 h - Pimephales promelas)	-	0.66 mg/L (EC50 48 h - water flea) 0.66 mg/L (EC50 48 h - Daphnia

				pulex)

Persistence and Degradability: No information available.

Bioaccumulation: There is no data for this product.

Component Information

Chemical name	Partition Coefficient:
Trade Secret 7	-5.1

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 ACTIVE	Present	Present	-	Present	-	Present	Present	Present	Present
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 7	Present ACTIVE	Present	Present	-	Present	-	Present	Present	Present	Present
Trade Secret 8	Present ACTIVE	Present	Present	-	Present	-	Present	Present	Present	Present
Trade Secret 10	Present ACTIVE	Present	Present	-	Present	-	Present	Present	Present	Present
Trade Secret 11	Present ACTIVE	-	-	Present	Present	-	-	Present	-	Present
Trade Secret 12	Present ACTIVE	Present	Present	-	Present	-	Present	Present	Present	Present
Trade Secret 13	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/NDSL - 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 2	1.0
Trade Secret 3	1.0
Trade Secret 6	1.0
Trade Secret 7	1.0
Trade Secret 10	1.0
Trade Secret 11	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, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	SARA Extremely Hazardous Substances TPQ
Trade Secret 8	5000 lb	-	
Trade Secret 12	1000 lb	-	

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	5000 lb	-	-	X
Trade Secret 11	-	X	-	-
Trade Secret 12	1000 lb	-	-	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:	HSE Department
Issue Date:	29-Mar-2022
Revision Date:	29-Mar-2022
Revision Note:	Format change. 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