



Safety Data Sheet

Report Date 08-Sep-22

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1. Identification

Product Name : NUVIGA
Synonyms : None
Product Use : Natamycin Seed Treatment Fungicide
Manufacturer/Supplier : Helena Agri-Enterprises, LLC
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification

Signal Word : None (no pictogram)
Skin Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012)
Eye Irritation : Not classified as hazardous under 29 CFR 1910.1200 (2012)
Acute Toxicity Oral : LD50 > 5,000 mg/kg - Not classified as hazardous under 29 CFR 1910.1200 (2012).
Acute Toxicity Dermal : No LD50 data available. Not classified as hazardous under 29 CFR 1910.1200 (2012).
Hazard Categories : This chemical is not considered hazardous according to the OSHA Hazard Communication Standard.
Hazard Statement : Not Hazardous

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Natamycin	7681-93-8	13.459
Glycerol	56-81-5	>20 - <30**
Other ingredients	Proprietary	**

**Exact concentration of components withheld as a trade secret. Values are not product specifications.

4. First Aid Measures

Eye : Hold eye open and rinse gently with water for 15-30 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin : Remove contaminated clothing and shoes. Rinse skin immediately with plenty of water for 15 to 30 minutes. Call a poison control center or doctor for treatment advice.

Inhalation : Move person to fresh air. If not breathing, call 911 or get medical help, then give artificial respiration, preferably mouth-to-mouth with the aid of a pocket mask equipped with a one-way valve. Call a poison control center or doctor for treatment advice.

Ingestion : Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : Remove from area of exposure followed by symptomatic and supportive care. Temporary eye irritation may occur.

5. Fire Fighting Measures



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Extinguishing Media : Use water fog, dry chemical, foam or carbon dioxide extinguishing agents.
Specific Hazards Arising from the Chemical : Under fire conditions, may emit irritating vapors, carbon dioxide and carbon monoxide.
Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Personal Precautions : Avoid contact with eyes, skin or clothing. Wear proper protective equipment. Ensure adequate ventilation.
Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
Emergency Procedures : Prevent entry into waterways, lakes, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.
Methods and Materials for Containment and Cleanup : Dike to contain spill using inert material (e.g., sand, silica gel or binder). Soak up spilled product with inert absorbent. Collect and transfer to properly labeled containers for disposal.

7. Handling and Storage

Precautions for Safe Handling : Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
Conditions for Safe Storage : Store and handle in accordance with good industrial hygiene practices. Keep container tightly closed. Store in a cool and well-ventilated area. Store in original container, away from direct sunlight at temperatures between 40 Degrees F. and 90 Degrees F. Keep separate from other pesticides, fertilizers, food and feed to prevent cross-contamination.

8. Exposure Controls / Personal Protection

TLV/PEL : Glycerol: TLV=10 mg/m³; PEL=5 mg/m³ (mists, respirable).
Appropriate Engineering Controls : Ensure adequate ventilation or provide local exhaust.
Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

9. Physical and Chemical Properties

Odor/Appearance : Off-white liquid; characteristic odor.
Flash Point, °F : >200.6 Degrees F.
Boiling Point, °F : No information available
Melting Point(Freezing point), °C : No information available
Vapor Pressure, mm Hg @ 20 °C : No information available
Vapor Density : No information available
Solubility in Water : Miscible
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.1145
Evaporation Rate(Butyl Acetate = 1) : No information available
Octanol/Water Partition Coefficient : No information available
pH : 8.05



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Flammable Limits (approximate volume % in air) : No information available

Auto-ignition Temperature : No information available

Decomposition temperature : No information available

10. Stability and Reactivity

Reactivity : Not reactive

Chemical Stability : Stable

Hazardous Decomposition Products : Under fire conditions, may emit irritating vapors, carbon dioxide, and carbon monoxide.

Hazardous Polymerization : Will not occur

Conditions to Avoid : No information available

Incompatible Materials : Strong oxidizing agents.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >5,000 mg/kg (rat). Not classified as hazardous under 29 CFR 1910.1200 (2012).

Acute Toxicity (Dermal LD50) : No LD50 data available. Not classified as hazardous under 29 CFR 1910.1200 (2012).

Acute Toxicity Inhalation LC50 : >2.23 mg/L (rat). Not classified as hazardous under 29 CFR 1910.1200 (2012).

Likely Routes of Exposure : Eyes

Skin Irritation : Slight irritation may occur. Not classified as hazardous under 29 CFR 1910.1200 (2012).

Eye Irritation : Slight irritation may occur. Not classified as hazardous under 29 CFR 1910.1200 (2012).

Skin Sensitization : Not a sensitizer.

Carcinogenic : Not listed by IARC, NTP or OSHA.

Chronic Effects : No information available.

Other Hazards : CA PROPOSITION 65 WARNINGS: No listed ingredient appears on the CA Proposition 65 Warnings listing.

12. Ecological Information

Ecotoxicity : For the active ingredient, Natamycin, LDC50 > 2,000 mg/kg Avian spp.

Persistence and Degradability : No information available

Bioaccumulative Potential : No information available

Mobility in Soil : No information available

Other Adverse Effects : Keep out of any body of water.

13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

14. Transport Information

UN Proper Shipping Name : Not regulated by DOT.

Transport Hazard Class : None

UN Identification Number : None



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Packaging Group : None
Environmental Hazards : No information found
Transport in Bulk : No information found
Special Precautions for Transportation : No information found
Freight Classification : Pesticides, NOI, Fungicides, Other than Poison (NMFC Item 155050, Sub 11, Class 70)

15. Regulatory Information

National Fire Protection Association Rating

Health: 0 Fire: 0 Reactivity: 0
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard Classification (Yes/No)

Immediate(Acute) Health: N
Delayed (Chronic) Health: N
Sudden Release of Pressure: N
Fire: N
Reactive: N

FIFRA Information : This Chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Registration Number : 92311-2-5905

FIFRA Signal Word : Caution

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Harmful if swallowed, absorbed through skin, or inhaled.

FIFRA Label Statement : Causes moderate eye irritation.

FIFRA Label Statement : Avoid contact with skin, eyes or clothing. Avoid breathing vapor.

FIFRA Label Statement : Wash thoroughly with soap and water after handling and

FIFRA Label Statement : before eating, drinking, chewing gum, using tobacco, or using the toilet.

FIFRA Label Statement : Remove and wash contaminated clothing before reuse.

16. Other Information

Data of Preparation/Revision : 08-September-2022