



Safety Data Sheet

Preparation Date 02-Oct-2024

Revision date 02-Oct-2024

Revision Number: 1

1. Identification of the Substance/Preparation and of the Company/Undertaking

Identification of the product

Product Description Atroforce

Other means of identification

Internal SDS code SRZC-8634136

Registration number(s) 86431-36-70506

Recommended use of the chemical and restrictions on use

Recommended use Plant protection product.

Uses advised against Non labeled activities

Details of the Supplier of the Safety Data Sheet

Supplier Address

UPL NA Inc.

PO Box 12219

Research Triangle Park, NC 27709-12219

Emergency telephone number

Company Phone Number 1-800-438-6071

Emergency telephone number Chemtrec: (800) 424-9300 (24hrs) or (703) 527-3887
Medical: Rocky Mountain Poison and Drug Safety (866) 673-6671 (24hrs)

2. Hazards Identification

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation

Category 2B

Label elements

EMERGENCY OVERVIEW

WARNING

Hazard Statements

Causes eye irritation

Appearance no data available

Physical state Liquid

Odor characteristic

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)**OTHER INFORMATION**

- No information available

3. Composition/information on Ingredients

Chemical name	CAS No	Weight-%
Trichoderma atroviride strain K5 (NRRL B-50520)	NOT APPLICABLE	0.68

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First aid measures**FIRST AID MEASURES**

Eye contact	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin contact	Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Ingestion	Call a physician or poison control center immediately. Have person sip a glass of water if able to swallow. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Most Important Symptoms and Effects, Both Acute and Delayed

Most Important Symptoms and Effects	None known.
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Indication of Any Immediate Medical Attention and Special Treatment Needed

Notes to physician	Treat symptomatically.
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5. Fire-fighting measures**Suitable extinguishing media**

Carbon dioxide (CO2). Foam. Dry powder. Water spray.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from the chemical

Not flammable but may burn at high temperatures.

Explosion data**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with skin and eyes. Use personal protective equipment. Wash thoroughly after handling. Provide adequate ventilation.

Environmental Precautions

Environmental precautions Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits.

Methods and material for containment and cleaning up

Methods for Clean-Up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling

Handling Wear personal protective equipment. Remove and wash contaminated clothing before re-use. Avoid contact with skin and eyes. Do not eat, drink or smoke when using this product. Keep out of reach of children. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed in a dry and well-ventilated place. Keep in properly labelled containers. Keep out of the reach of children.

incompatible materials Strong oxidizing agents. Strong acids. Strong bases.

8. Exposure Controls/Personal Protection

Exposure guidelines This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering controls Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.

Personal protective equipment

Eye/Face Protection

Where there is potential for eye contact have eye flushing equipment available. Use eye protection to avoid eye contact. Goggles.

Skin protection

Chemical resistant footwear plus socks. Chemical resistant protective clothing.

Respiratory protection

Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus. Respiratory protection programs must comply with 29 CFR 1910.134.

General hygiene considerations

Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product. Wear respiratory protection. Keep

away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	No information available	
Physical state	Liquid	
Odor	characteristic	
color	Green	
Property	VALUES	Remarks/ Method
pH	6	Approximately
Melting point/freezing point		None known
Boiling Point/Range		None known
Flash Point		None known
Evaporation Rate		None known
Flammability (solid, gas)		None known
Specific gravity	0.92 g/ml @ 20 C	None known
Bulk density		None known
Water solubility		insoluble
Solubility in Other Solvents	No information available	None known
Partition coefficient: n-octanol/water		None known
Autoignition temperature		None known
Decomposition temperature		None known
Viscosity		None known

9.2 OTHER INFORMATION- NONE

10. Stability and Reactivity

Reactivity

no data available

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight. Incompatible Products.

incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous decomposition products

None under normal use conditions.

11. Toxicological Information

Information on Likely Routes of Exposure

Inhalation	No known effect based on information supplied. Based on available data, the classification criteria are not met.
Eye contact	Causes eye irritation.
Skin contact	Prolonged skin contact may cause skin irritation. Skin irritation is reversible after 24 hrs.

Ingestion

Based on available data, the classification criteria are not met.

Components Information

Trichoderma atroviride strain K5 :

EPA concluded in it's health assessment of 7-2024 that this K5 strain is not toxic, pathogenic or infective via oral, inhalation or dermal routes of exposure.

Trichoderma atroviride strain K5

oral LD50 (rat) >5,000 mg/kg

Inhalation LC50 results noted as No mortality - no infectivity. Not classified for acute inhalation toxicity.

Dermal irritation (rabbit) Fully reversible after 24 hours

Eye irritation (rabbit) Chemosis fully reversible after 24 hr

Eye irritation (rabbit) Conjunctivae fully reversible after 48 hr

Information on Toxicological Effects**Symptoms**

No information available.

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

No information available.

Mutagenic effects

no data available.

Carcinogenicity

There are no known carcinogenic chemicals in this product.

Reproductive effects

Not Available.

STOT - Single Exposure

no data available.

STOT - Repeated Exposure

no data available.

Aspiration hazard

No information available.

Numerical Measures of Toxicity - See above**12. Ecological Information****ecotoxicity**

Trichoderma atroviride strain K5:

Honey bees LD50 >1.39 X 10E6 CFU/bee

Persistence/Degradability

no data available.

Bioaccumulation/ Accumulation

No information available.

Other Adverse Effects

no data available

13. Disposal Considerations**Waste Treatment Methods****Waste Disposal Method**

Dispose of in accordance with all applicable federal, state, and local laws and regulations.

Contaminated packaging

Do not reuse empty containers. Empty containers should be taken for local recycling, recovery or waste disposal.

14. Transport Information**DOT**

NOT REGULATED

TDG

NOT REGULATED

IATA

NOT REGULATED

IMDG

NOT REGULATED

15. Regulatory Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling 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:

signal word

CAUTION

Keep out of Reach of Children. Causes moderate eye irritation. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below mean high water mark.

International Inventories

USINV	Not present
DSL/NDSL	Not present
EINECS/ ELINCS	Not Present
ENCS	Not Present
China	Not Present
KECL	Not Present
PICCS	Not Present
AICS	Not Present
TSCA	Not Present

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU 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
AICS - Australian Inventory of Chemical Substances

Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

CERCLA

Not applicable

CERCLA**RCRA****Pesticide Information**

State Regulations

State Right-to-Know

International regulations

U.S. EPA Label information

EPA Pesticide registration number 86431-36-70506

16. Other Information

NFPA	HEALTH 1	flammability 0	Instability 0	Physical hazard -
Preparation Date	02-Oct-2024			
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Revision Summary				
Add to system				
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End of SDS				