

BASILISK UniTech Pre-Emergent Herbicide

Revision: 1.0 US

Issuing date: 08.12.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking

| | |
|---|---|
| <u>Product identifier on label</u> | BASILISK UniTech Pre-Emergent Herbicide |
| <u>Use</u> | Herbicide |
| <u>Supplier or Manufacturer</u> | Aquatrols Corporation of America 1273 Imperial Way Paulsboro, NJ 08066 Phone number: 1-856-537-6003 |
| <u>Emergency telephone</u> | FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT: CHEMTREC 800-424-9300 within the United States and Canada, or 703-527-3887 for international collect calls. |

SECTION 2: Hazards identification

| | | |
|------------------------------|--|--|
| <u>Classification</u> | Skin Sensitizer: Carcinogenicity: Specific Target Organ Toxicity: Specific Target Organ Toxicity: Eye Damage/Irritation: | Category 1B Category 2 Repeated Category 2 Drowsiness Category 3 Category 2B |
|------------------------------|--|--|

Signal Word (OSHA) Warning

Hazard Statements
 May cause an allergic skin reaction
 Causes eye irritation
 May cause drowsiness or dizziness
 Suspected of causing cancer
 May cause damage to organs through prolonged or repeated contact

Hazard Symbols


Precautionary Statements

Use only outdoors or in a well-ventilated area.
 If inhaled: Remove person to fresh air and keep comfortable for breathing.
 Call a poison control center or doctor if you feel unwell.
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Wash hands and face thoroughly after handling.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves, protective clothing and eye protection.
 If on skin: Wash with plenty of soap and water.
 If skin irritation or rash occurs: Get medical advice.
 If in eyes: 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.
 If exposed or concerned: Get medical advice/attention.
 See Section 4 First Aid Measures.
 Wash contaminated clothing before reuse.

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Store this material in a locked storage area.
 Dispose of contents and container in accordance with local regulations.
 Wear eye protection/ face protection.

Other hazard statements None

SECTION 3: Composition/information on ingredients

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200 or Regulation (EC) No 1272/2008

| Chemical Name | Common Name | CAS Number | Concentration |
|--|--------------------|-------------------|----------------------|
| 2,4-dinitro-N ³ ,N ³ -dipropyl-6-(tri-Fluoromethyl)-1,3-benzenediamine | Prodiamine | 29091-21-2 | 40.00% |
| Proprietary solvent [1] | Trade Secret | Trade Secret | 1.0-10% |
| UniTech | Trade Secret | Trade Secret | ≤10% |
| Other Inert Ingredients | Trade Secret | Trade Secret | <50% |

[1] Substance classified with a health or environmental hazard. Substance with a workplace exposure limit.

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

SECTION 4: First aid measures

Have the product container, label, or Safety Data Sheet with you when calling a poison control center, or doctor, or going for medical treatment.

- Ingestion:** If swallowed: Call a poison control center (1-800-222-1222) immediately for treatment advice. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so after calling a poison control center or doctor. Do not give anything by mouth to an unconscious person.
- Eye Contact:** If in eyes: 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 (1-800-222-1222) or doctor for treatment advice.
- Skin Contact:** If on skin or clothing: Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center (1-800-222-1222) or doctor for treatment advice.
- Inhalation:** If inhaled: Move person to fresh air. If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center (1-800-222-1222) or doctor for treatment advice.

Most important symptoms/effects: Eye irritation
 Allergic skin reaction
 Drowsiness or dizziness

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.

Treat symptomatically.

Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

SECTION 5: Firefighting measures

Suitable (and unsuitable) extinguishing media

Use dry chemical, alcohol-resistant foam, or CO₂ extinguishing media. If water is used to fight fire, dike and collect runoff. Do not use water jet.

Special hazards arising from the substance or mixture

During a fire, irritating and possibly toxic gases may be generated by decomposition or combustion. Combustion may yield smoke, carbon monoxide, and other products of incomplete combustion. Oxides of sulfur, nitrogen or phosphorus may also be formed.

Special protective equipment and precautions for firefighters

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent contamination from run-off of adjacent areas, streams, drinking water and sewers. Do not flush down sewers or other drainage systems.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep all sources of ignition away from spill/release. In case of a major spill or spillage in a confined space evacuate the area and check vapor levels. Follow exposure controls/personal protection outlined in Section 8.

Environmental precautions

Do not allow spills to enter drains or watercourses.

Methods and materials for containment and cleaning up

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Ventilate the area and avoid breathing vapors or mists. Clean up spills immediately and take the personal protective measures outlined in Section 8. Cover entire spill with absorbing non-combustible materials e.g. sand, earth, and vermiculite, and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Do not use solvents. Do not allow spills to enter drains or watercourses. Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

SECTION 7: Handling and storage

Precautions for safe handling

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverage or tobacco products in the storage area. Prevent eating, drinking, tobacco use and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling the material. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or mists. Keep container closed. Use only with adequate ventilation. Use good personal hygiene practices. Wash hands before eating, drinking or smoking. Remove contaminated clothing and clean before reuse.

Conditions for safe storage, including any incompatibilities

Store this material in a locked storage area. Store in tightly closed containers in dry, well-ventilated area away from excessive heat and incompatibles.

Incompatible materials: Oxidizing agents.

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SECTION 8: Exposure controls/personal protection

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of this product.

For commercial applications and/or on-farm applications consult the product label.

Control parameters**Exposure**

This product contains the following ingredient with workplace exposure limits.

| CAS No. | Ingredient | Source | Value |
|-------------|---------------------|--------|--|
| Proprietary | Proprietary Solvent | OSHA | TWA 15 mg/m3 (total) TWA 5 mg/m3 (resp) |
| | | ACGIH | TWA 3 mg/m3 (respirable) 10 mg/m3 (mist) |
| | | NIOSH | No Established RELs |
| 29091-21-2 | Prodiamine | OSHA | No Established Limit |
| | | ACGIH | No Established Limit |
| | | NIOSH | No Established Limit |

Carcinogen Data

| CAS No. | Ingredient | Source | Value |
|-------------|---|--------|---|
| Proprietary | Proprietary Solvent | OSHA | Select Carcinogen: No |
| | | NTP | Known: No; Suspected: No |
| | | IARC | Group 1: No; Group 2a: No; group 2b: No; Group 3: No; Group 4: No |
| 29091-21-2 | 1,3-Benzenediamine, 2,6-dinitro-N1,N1-dipropyl-4-(trifluoromethyl)- | OSHA | Select Carcinogen: No |
| | | NTP | Known: No; Suspected: No |
| | | IARC | Group 1: No; Group 2a: No; group 2b: No; Group 3: No; Group 4: No |

Exposure controls

| | |
|-----------------------------|---|
| Respiratory | If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators. |
| Eyes | Wear safety eyewear, e.g. safety glasses, goggles or visors to protect against the splash of liquids. |
| Skin | Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. All parts of the body should be washed after contact. |
| Ingestion | Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling. |
| Engineering Controls | Provide adequate ventilation. Where reasonably practicable this should be achieved by use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn. |

SECTION 9: Physical and chemical properties

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|--|--|
| Appearance | Liquid |
| Odor | Mild |
| Odor threshold | Not Measured |
| pH (1% in DI water) | 7.0-8.0 |
| Melting point/freezing point (C) | Not measured |
| Initial boiling point and boiling range (C) | Not measured |
| Flash Point | >93 C (200F) |
| Evaporation rate (Ether = 1) | Not measured |
| Flammability (solid, gas) | Not measured |
| Upper/lower flammability or explosive limits | Lower Explosive Limit: Not measured Upper Explosive Limit: Not measured |

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|---|---------------|
| Vapor pressure (Pa) | Not measured |
| Vapor density | Not measured |
| Specific Gravity | 1.14-1.16 |
| Partition coefficient n-octanol/water (Log Kow) | Not measured |
| Auto-ignition temperature (C) | Not measured |
| Decomposition temperature (C) | Not measured |
| Viscosity (cSt) | 1300-2200 cPs |
| VOC% | Not measured |

Other information

No other relevant information.

SECTION 10: Stability and reactivity

| | |
|---|---|
| Reactivity | Not chemically reactive. |
| Chemical stability | Stable under normal ambient and anticipated conditions of use. |
| Possibility of hazardous reactions | Hazardous reactions not anticipated. |
| Conditions to avoid | Extended exposure to high temperatures can cause decomposition. Avoid all possible sources of ignition. |
| Incompatible materials | Oxidizing agents. |
| Hazardous decomposition products | Not anticipated under normal conditions of use. |

SECTION 11: Toxicological information
Health Effects Information

| | |
|---|---|
| Likely routes of exposure: | Dermal, inhalation |
| Symptoms of exposure: | Drowsiness or dizziness |
| Delayed, immediate and chronic effects of exposure: | Possible carcinogenicity, allergic skin reaction, drowsiness or dizziness |

Acute Toxicity
ATE (Acute Toxicity Estimate)

| Ingredient | Oral LD50, mg/kg | Skin LD50, mg/kg | Inhalation Vapour LC50, mg/L/4hr | Inhalation Dust/Mist LC50, mg/L/4hr |
|---|------------------|------------------|----------------------------------|-------------------------------------|
| BASILISK UniTech Pre-Emergent Herbicide | >2,000.00 | >2,000.00 | >20.00 | >5.00 |

Reproductive/Developmental Effects: Prodiamine: Fetal toxicity at high dose levels (rats); developmental and maternal toxicity observed at 1g/kg/day. These were congenital anomalies occurring in test and control animals that are not considered to be treatment related.

Chronic/Subchronic Toxicity Studies: Prodiamine: Liver (alteration and enlargement) and thyroid effects (hormone imbalances) at high dose levels (rats); decreased body weight gains.

Carcinogenicity: Prodiamine: Possible human carcinogen based on limited animal evidence in the absence of human data. Information is insufficient for classification.

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SECTION 12: Ecological information

The information presented here is for the active ingredient, prodiamine.

Eco-Acute Toxicity

Prodiamine: Fish (Bluegill Sunfish) 96-hour LC50 > 552 ppb
 Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 > 83 ppb
 Bird (Bobwhite Quail) 14-day LD50 > 2250 mg/kg

Persistence and degradability

No data available

Bioaccumulative potential

Does not bioaccumulate

Mobility in soil

Immobile in soil

Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals

Other adverse effects/information

Stable in water

SECTION 13: Disposal considerations**Waste treatment methods**

Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether special waste regulations apply. Dispose of contents in accordance with local and national regulations.

Disposal

Do not reuse product containers. Dispose of product containers, waste containers and residues according to local, state and federal health and environmental regulations.

SECTION 14: Transport information**DOT Proper shipping name**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PRODIAMINE)

DOT Hazard Class

9

DOT Packing group

III

DOT Label

9

IMDG Proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PRODIAMINE)

IMDG Hazard Class

9

IMDG Packing group

III

IMDG

Marine Pollutant: Yes

ICAO/IATA

See bill of lading

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SECTION 15: Regulatory information

Pesticide Registration: 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:

Caution: May be harmful if swallowed, absorbed through skin, or inhaled. Avoid breathing vapor. Avoid contact with skin, eyes, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

EPA Registration Number: 94396-31

Toxic Substance Control Act (TSCA) All ingredients of this product are listed on the TSCA (Toxic Substances Control Act) Inventory or are not required to be listed on the TSCA Inventory.

WHMIS Classification Not regulated

US EPA Tier II Hazards

Fire: No
Sudden Release of Pressure: No
Reactive: No
Immediate (Acute): No
Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs (>0.1%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous (>0.1%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 – Carcinogens (>0.0%):

Aldehyde
Oxirane
Oxirane, methyl-
1,4-dioxane

Proposition 65 – Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 – Female Repro Toxins (>0.0%):

Oxirane

Proposition 65 – Male Repro Toxins (>0.0%):

Oxirane

N.J. RTK Substances (>1%): Glycerol

Penn RTK Substances (>1%): Glycerol

SECTION 16: Other information**HMIS Hazard Rating**

Health 2
Flammability 1
Reactivity 0

NFPA Hazard Ratings

Health 2
Flammability 1
Reactivity 0

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. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in another manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.