

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
 Product name : Diamid T&O
 Albaugh Material # : 1000033, 1001900

1.2. Other means of identification

US EPA Registration Number: 89442-70

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Read and understand the entire label before using. Use only according to label directions. It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.
 Restrictions on use : All other uses not indicated.

1.4. Supplier's details

Albaugh, LLC
 1525 NE 36th Street
 Ankeny, IA 50021
 T 800-247-8013

1.5. Emergency phone number

Emergency number : For MEDICAL EMERGENCY (US or CANADA) 1-888-347-6732.
 For CHEMICAL LEAK, SPILL, FIRE, or EXPOSURE Call 1-800-424-9300, Outside USA and Canada: +1 703-741-5970 (collect call).

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Skin sensitization, Category 1	H317	May cause an allergic skin reaction.
Specific target organ toxicity — Repeated exposure, Category 2	H373	May cause damage to organs (kidneys) through prolonged or repeated exposure (if swallowed).

Full text of H statements : see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US)

: Warning

Hazard statements (GHS US)

: H317 - May cause an allergic skin reaction
 H373 - May cause damage to organs (kidneys) through prolonged or repeated exposure (if swallowed)

Precautionary statements (GHS US)

: P260 - Do not breathe mist, vapors, spray.
 P272 - Contaminated work clothing must not be allowed out of the workplace.

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According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

P280 - Wear protective gloves, protective clothing.
P314 - Get medical advice or attention if you feel unwell.
P302+P352 - If on skin: Wash with plenty of water.
P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P501 - Dispose of contents and container to an approved waste disposal plant.

2.3. Hazards associated with known or reasonably anticipated uses

None known

2.4. Hazards not otherwise classified

Other hazards which do not result in classification : None known.

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Chlorantraniliprole	CAS-No.: 500008-45-7	33.93 – 36.03
Ethylene Glycol	CAS-No.: 107-21-1	1-5
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	CAS-No.: 2634-33-5	0.1-1

Full text of hazard classes and H-statements : see section 16

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : Move the affected person to fresh air. If not breathing, give artificial respiration. If experiencing respiratory symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison center or a doctor if you feel unwell.

First-aid measures after eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms persist call a doctor.

First-aid measures after ingestion : Immediately call a poison center or doctor/physician. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Do not give any liquid to the person.

4.2. Most important symptoms/effects, acute and delayed

Inhalation : May cause minor irritation to the respiratory tract and to other mucous membranes.

Skin : May cause slight irritation to the skin. May cause an allergic skin reaction.

Eyes : May cause slight irritation.

Ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

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Chronic symptoms : Prolonged or repeated exposure to Ethylene glycol by ingestion may cause damage to kidneys.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : If necessary seek medical advice.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : None.

5.2. Specific hazards arising from the chemical

Fire hazard : The product is not flammable.

Hazardous decomposition products in case of fire : None known.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Do not attempt to take action without suitable protective equipment.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin, eyes and clothing. Do not breathe spray. Do not touch or walk on the spilled product.

For non-emergency personnel

Emergency procedures : Keep unnecessary and unprotected personnel away from the spillage.

For emergency responders

Protective equipment : Use personal protective equipment as required. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Methods and materials for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Absorb with an inert material and place in an appropriate waste disposal container.

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Always wash hands after handling the product. Avoid contact with eyes, skin and clothing. Wash contaminated clothing before reuse. Refer to product label for additional information on use and handling.

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According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

7.2. Conditions for safe storage, including incompatibilities

Storage conditions : Keep out of the reach of children. Do not freeze. Store in original container. Do not contaminate water, food, or feed by storage or disposal.

Storage temperature : > 40 °F

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Ethylene Glycol (107-21-1)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Ethylene glycol
ACGIH® TLV® TWA	25 ppm (V - Vapor fraction)
ACGIH® TLV® STEL	10 mg/m³ (I - Inhalable particulate matter, H - Aerosol only)
	50 ppm (V - Vapor fraction)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2024

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure adequate ventilation.

8.3. Individual protection measures, such as personal protective equipment

Materials for protective clothing:
Wear suitable protective clothing
Hand protection:
Chemically resistant gloves, made of barrier laminate, butyl rubber ≥14mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, or viton ≥14 mils
Eye protection:
Use suitable eye protection
Skin and body protection:
To avoid contact with skin, wear long pants, long-sleeved shirt and shoes plus socks.
Respiratory protection:
In operations where exposure limits are exceeded or exposure levels are excessive, an approved respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state : Liquid

Color : Opaque White

Odor : Characteristic

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According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

Odor threshold	: No data available
pH	: 6.84
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: 97 °C
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: 1.1755
Density	: 1.1755 g/cm ³
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: 1650.362 mm ² /s
Viscosity, dynamic	: 1940 mPa·s
Explosion limits	: No data available
Particle characteristics	: Particle characteristics : Not applicable

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Keep away from oxidizers, strong acids and strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

Diamid T&O	
LD50 oral rat	> 2000
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 3.39 mg/l/4h
Ethylene Glycol (107-21-1)	
LD50 oral rat	7712 mg/kg
LD50 dermal rat	3500 mg/kg LD50 dermal mouse
LC50 Inhalation - Rat (Dust/Mist)	> 2.5 mg/l/4h
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)	
LD50 oral rat	490 mg/kg
LD50 dermal rat	> 2000 mg/kg
Chlorantraniliprole (500008-45-7)	
LD50 oral	5000 mg/kg
LD50 dermal	5000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	5.1 mg/l/4h
Skin corrosion/irritation	: Not classified pH: 6.84
Ethylene Glycol (107-21-1)	
pH	6 – 7.5 Source: GESTIS
Serious eye damage/irritation	: Not classified pH: 6.84
Ethylene Glycol (107-21-1)	
pH	6 – 7.5 Source: GESTIS
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Ethylene Glycol (107-21-1)	
NOAEL (chronic,oral,animal/male,2 years)	1500 mg/kg body weight
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: May cause damage to organs (kidneys) through prolonged or repeated exposure (if swallowed).
Ethylene Glycol (107-21-1)	
Additional information	kidneys
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified

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According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

Diamid T&O	
Viscosity, kinematic	1650.362 mm²/s
Inhalation	: May cause minor irritation to the respiratory tract and to other mucous membranes.
Skin	: May cause slight irritation to the skin. May cause an allergic skin reaction.
Eyes	: May cause slight irritation.
Ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.
Chronic symptoms	: Prolonged or repeated exposure to Ethylene glycol by ingestion may cause damage to kidneys.

SECTION 12 Ecological information

12.1. Ecotoxicity

Ecology - general	: toxic for aquatic organisms, may have longterm hazardous effects in aquatic environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Ethylene Glycol (107-21-1)	
LC50 - Fish [1]	> 72860 mg/l
EC50 - Crustacea [1]	> 100 mg/l
EC50 96h - Algae [1]	3536 mg/l
EC50 96h - Algae [2]	6500 – 13000 mg/l <i>Pseudokirchneriella subcapitata</i>
ErC50 algae	> 10000 mg/l
NOEC (chronic)	≥ 1000 mg/l Test organisms (species): <i>Americamysis bahia</i> (previous name: <i>Mysidopsis bahia</i>) Duration: '23 d'

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)

LC50 - Fish [1]	2.15 mg/l
EC50 - Crustacea [1]	2.9 mg/l EC50 48h - <i>Daphnia magna</i> [mg/l]

Chlorantraniliprole (500008-45-7)

EC50 - Crustacea [1]	0.0116 mg/l
NOEC chronic crustacea	0.00286 mg/l

12.2. Persistence and degradability

Diamid T&O	
Persistence and degradability	No additional information available.
Ethylene Glycol (107-21-1)	
Persistence and degradability	Readily biodegradable.
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)	
Persistence and degradability	Not rapidly degradable

Diamid T&O

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According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

Chlorantraniliprole (500008-45-7)

Persistence and degradability	No additional information available.
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12.3. Bioaccumulative potential

Ethylene Glycol (107-21-1)

Partition coefficient n-octanol/water (Log Pow)	-1.36
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1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)

BCF - Fish [1]	6.62
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Partition coefficient n-octanol/water (Log Kow)	0.7
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12.4. Mobility in soil

Ethylene Glycol (107-21-1)

Mobility in soil	0.2 Source: HSDB
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12.5. Other adverse effects

Ozone	: Not classified
Fluorinated greenhouse gases	: No

SECTION 13 Disposal considerations

Regional waste regulation	: Dispose of in accordance with applicable federal, state, and local regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions
Sewage disposal recommendations	: Disposal must be done according to official regulations
Product/packaging disposal recommendations	: Disposal must be in accordance with label instructions.
Additional information	: Do not re-use empty containers.

SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT: Not regulated when shipped domestically by highway in non-buk containers as per 49 CFR 171.4.

Regional waste regulation	: Dispose of in accordance with applicable federal, state, and local regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions
Sewage disposal recommendations	: Disposal must be done according to official regulations
Product/packaging disposal recommendations	: Disposal must be in accordance with label instructions.
Additional information	: Do not re-use empty containers.

When shipped in bulk:

UN/ID no.: UN3082

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s (Chlorantraniliprole)

Hazard class: 9

Packing group: PG III

IMDG - Marine Pollutant IMDG - Marine Pollutant.

TDG: When shipped in Canada domestic highway non-bulk this product can be shipped as Not Regulated as per TDG 1.45.1

When shipped in bulk:

UN/ID no.: UN3082

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According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Chlorantraniliprole)
Hazard class: 9
Packing group: PG III
Marine Pollutant: Y or N [List Ingredient(s) with %]: Marine pollutant.

IATA
UN/ID no. UN3082
Proper shipping name Environmentally hazardous substances, liquid, n.o.s (Chlorantraniliprole)
Hazard class 9
Packing group PG III
Description IMDG - Marine Pollutant

IMDG
UN/ID no. UN3082
Proper shipping name Environmentally hazardous substances, liquid, n.o.s (Chlorantraniliprole)
Hazard class 9
Packing group PG III
Environmental hazards IMDG - Marine Pollutant

SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:		
Chlorantraniliprole	CAS-No. 500008-45-7	33.93 – 36.03%

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.		
Ethylene Glycol	CAS-No. 107-21-1	1-5%

Ethylene Glycol (107-21-1)	
Listed on EPA Hazardous Air Pollutant (HAPS)	
CERCLA RQ	5000 lb

FIFRA Labelling	
EPA Registration Number	83100-77
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.	
FIFRA Signal Word	Caution
FIFRA Precautionary Statement	Keep out of reach of children. Hazards to Humans and Domestic Animals.
FIFRA Human Health Hazards	Harmful if swallowed. Harmful if absorbed through skin or inhaled. Causes moderate eye irritation.
FIFRA First Aid	Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

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According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

FIFRA Labelling

FIFRA Environmental Hazards

This pesticide is toxic to aquatic invertebrates, oysters, and shimp. Do not apply directly to water. Drift and runoff may be hazardous to aquatic organisms in water adjacent to use sites.

15.2. International regulations

CANADA

Ethylene Glycol (107-21-1)

Listed on the Canadian DSL (Domestic Substances List)

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (2634-33-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. State regulations



WARNING:

This product can expose you to Ethylene glycol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component

State or local regulations

Ethylene Glycol(107-21-1)

U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities; U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16 Other information

According to 29CFR 1910.1200 OSHA Hazard Communication Standard (HCS 2024) and the Hazardous Products Regulation (WHMIS 2015 rev 2022)

Revision date : 11/26/2025

Issue date : 11/26/2025

Full text of hazard classes and H-statements

H317 May cause an allergic skin reaction

H373 May cause damage to organs through prolonged or repeated exposure

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.