

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Endius Cockroach Gel Bait

Version	Revision Date:	SDS Number:	Date of last issue: 01/22/2026
1.2	04/09/2026	11539228-00003	Date of first issue: 05/28/2025

SECTION 1. IDENTIFICATION

Product name : Endius Cockroach Gel Bait
Product code : UVP: DU00000142 Specification: 102D00000446 EPA Registration No:101563-401

Manufacturer or supplier's details

Company name of supplier : Environmental Science U.S. LLC.
Address : 5000 Centregreen Way, Suite 400
Cary NC 27513
Telephone : 1-800-331-2867
Emergency telephone : +1 703-741-5970
E-mail address : uscontact@envu.com

Recommended use of the chemical and restrictions on use

Recommended use : Insecticide
Restrictions on use : For professional users only.

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards for the product as supplied

Skin sensitization : Category 1

Other hazards

None known.

GHS label elements

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.

Precautionary Statements :

Prevention:

P261 Avoid breathing dust, fume, gas, mist, vapors or spray.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water.
P321 Specific treatment (see supplemental first aid instructions on this label).
P333 + P313 If skin irritation or rash occurs: Get medical attention.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Endius Cockroach Gel Bait

Version 1.2 Revision Date: 04/09/2026 SDS Number: 11539228-00003 Date of last issue: 01/22/2026
Date of first issue: 05/28/2025

P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal:

P501 Dispose of contents and container to an approved waste disposal plant.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS No./Unique ID	Concentration (% w/w)	Trade secret
2-Bromo-2-nitro- 1,3-propanediol	52-51-7*	$\geq 0.1 - < 1$	-
Methyl (4aS)-7-chloro-2-((methoxycarbonyl)[4-(trifluoromethoxy)phenyl]carbonyl)-2,5-dihydroindeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate	173584-44-6*	0.6	-
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	55965-84-9*	$\geq 0.001 - < 0.005$	-

* Indicates that the identifier is a CAS No.

Alternative CAS Numbers for some regions

Chemical name	Alternative CAS Number(s)
Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	2682-20-4, 26172-55-4

SECTION 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.

In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.
Remove contaminated clothing and shoes.
Get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.

In case of eye contact : Flush eyes with water as a precaution.
Get medical attention if irritation develops and persists.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Endius Cockroach Gel Bait

Version	Revision Date:	SDS Number:	Date of last issue: 01/22/2026
1.2	04/09/2026	11539228-00003	Date of first issue: 05/28/2025

If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May cause an allergic skin reaction.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO ₂) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion products	:	No hazardous combustion products are known
Specific extinguishing methods	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for containment and cleaning up	:	Sweep up or vacuum up spillage and collect in suitable container for disposal. Local or national regulations may apply to releases and disposal.

SAFETY DATA SHEET

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Endius Cockroach Gel Bait

Version	Revision Date:	SDS Number:	Date of last issue: 01/22/2026
1.2	04/09/2026	11539228-00003	Date of first issue: 05/28/2025

sal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

- | | | |
|-----------------------------|---|--|
| Technical measures | : | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
| Local/Total ventilation | : | Use only with adequate ventilation. |
| Advice on safe handling | : | Do not get on skin or clothing.
Avoid breathing dust, fume, gas, mist, vapors or spray.
Do not swallow.
Avoid contact with eyes.
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
Take care to prevent spills, waste and minimize release to the environment. |
| Conditions for safe storage | : | Keep in properly labeled containers.
Store in accordance with the particular national regulations. |
| Materials to avoid | : | Do not store with the following product types:
Strong oxidizing agents |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

- | | | |
|----------------------|---|---|
| Engineering measures | : | Ensure adequate ventilation, especially in confined areas.
Minimize workplace exposure concentrations. |
|----------------------|---|---|

Personal protective equipment

- | | | |
|--------------------------|---|--|
| Respiratory protection | : | No personal respiratory protective equipment normally required. |
| Hand protection | : | |
| Material | : | Chemical-resistant gloves |
| Remarks | : | Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often!
For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday. |
| Eye protection | : | Wear the following personal protective equipment:
Safety glasses |
| Skin and body protection | : | Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure |

SAFETY DATA SHEET

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Endius Cockroach Gel Bait

Version	Revision Date:	SDS Number:	Date of last issue: 01/22/2026
1.2	04/09/2026	11539228-00003	Date of first issue: 05/28/2025

Hygiene measures : potential.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
: If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.
When using do not eat, drink or smoke.
Contaminated work clothing should not be allowed out of the workplace.
Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: gel
Color	: brown
Odor	: characteristic
Odor Threshold	: No data available
pH	: 5 - 6
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: Not applicable
Evaporation rate	: Not applicable
Flammability (solid, gas)	: Not classified as a flammability hazard
Upper explosion limit / Upper flammability limit	: Not applicable
Lower explosion limit / Lower flammability limit	: Not applicable
Vapor pressure	: Not applicable
Relative vapor density	: Not applicable
Relative density	: No data available
Density	: No data available
Solubility(ies)	
Water solubility	: partly miscible
Partition coefficient: n-octanol/water	: Not applicable
Autoignition temperature	: Not applicable

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Endius Cockroach Gel Bait

Version	Revision Date:	SDS Number:	Date of last issue: 01/22/2026
1.2	04/09/2026	11539228-00003	Date of first issue: 05/28/2025

Decomposition temperature : No data available

Viscosity
Viscosity, kinematic : > 75000 mm²/s

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Particle characteristics
Particle size : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions : Can react with strong oxidizing agents.

Conditions to avoid : None known.

Incompatible materials : Oxidizing agents

Hazardous decomposition products : No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: 50.02 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: Calculation method

Components:

2-Bromo-2-nitro- 1,3-propanediol:

Acute oral toxicity : LD50 (Rat, female): 193 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : Acute toxicity estimate: 0.5001 mg/l

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Endius Cockroach Gel Bait

Version	Revision Date:	SDS Number:	Date of last issue: 01/22/2026
1.2	04/09/2026	11539228-00003	Date of first issue: 05/28/2025

Exposure time: 4 h
Test atmosphere: dust/mist
Method: Expert judgment

Assessment: Not corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rat): 1,600 mg/kg

Methyl (4aS)-7-chloro-2-((methoxycarbonyl)[4-(trifluoromethoxy)phenyl]carbamoyl)-2,5-dihydroindeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate:

Acute oral toxicity : LD50 (Rat, female): 179 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, female): > 1 - 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Remarks: The test was conducted according to guideline
Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 402
Remarks: The test was conducted according to guideline
Based on data from similar materials

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Acute oral toxicity : LD50 (Rat): 64 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.171 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rabbit): 87.12 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

2-Bromo-2-nitro- 1,3-propanediol:

Species : Rabbit
Result : Skin irritation

Methyl (4aS)-7-chloro-2-((methoxycarbonyl)[4-(trifluoromethoxy)phenyl]carbamoyl)-2,5-dihydroindeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
Remarks : The test was conducted according to guideline

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Endius Cockroach Gel Bait

Version	Revision Date:	SDS Number:	Date of last issue: 01/22/2026
1.2	04/09/2026	11539228-00003	Date of first issue: 05/28/2025

Based on data from similar materials

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Corrosive after 1 to 4 hours of exposure

Serious eye damage/eye irritation

Not classified based on available information.

Components:

2-Bromo-2-nitro- 1,3-propanediol:

Species	:	Rabbit
Result	:	Irreversible effects on the eye
Method	:	OECD Test Guideline 405

Methyl (4aS)-7-chloro-2-((methoxycarbonyl)[4-(trifluoromethoxy)phenyl]carbamoyl)-2,5-dihydroindeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate:

Species	:	Rabbit
Result	:	No eye irritation
Method	:	OECD Test Guideline 405
Remarks	:	The test was conducted according to guideline Based on data from similar materials

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Result	:	Irreversible effects on the eye
Remarks	:	Based on skin corrosivity.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Components:

2-Bromo-2-nitro- 1,3-propanediol:

Test Type	:	Maximization Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Result	:	negative

Methyl (4aS)-7-chloro-2-((methoxycarbonyl)[4-(trifluoromethoxy)phenyl]carbamoyl)-2,5-dihydroindeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate:

Test Type	:	Maximization Test
Routes of exposure	:	Skin contact

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Endius Cockroach Gel Bait

Version	Revision Date:	SDS Number:	Date of last issue: 01/22/2026
1.2	04/09/2026	11539228-00003	Date of first issue: 05/28/2025

Species : Guinea pig
Method : OECD Test Guideline 406
Result : positive
Remarks : The test was conducted according to guideline
Based on data from similar materials

Assessment : Probability or evidence of skin sensitization in humans

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Test Type : Buehler Test
Routes of exposure : Skin contact
Species : Guinea pig
Result : positive

Assessment : Probability or evidence of high skin sensitization rate in humans

Germ cell mutagenicity

Not classified based on available information.

Components:

2-Bromo-2-nitro- 1,3-propanediol:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 471
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: positive

Test Type: Chromosome aberration test in vitro
Result: positive

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)
Species: Mouse
Application Route: Ingestion
Result: negative

Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: inhalation (dust/mist/fume)
Method: OECD Test Guideline 474
Result: negative

Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 486
Result: negative

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Endius Cockroach Gel Bait

Version	Revision Date:	SDS Number:	Date of last issue: 01/22/2026
1.2	04/09/2026	11539228-00003	Date of first issue: 05/28/2025

Methyl (4aS)-7-chloro-2-((methoxycarbonyl)[4-(trifluoromethoxy)phenyl]carbamoyl)-2,5-dihydroindeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OPPTS 870.5100
Result: negative
Remarks: The test was conducted according to guideline

Test Type: In vitro mammalian cell gene mutation test
Method: OPPTS 870.5300
Result: negative
Remarks: The test was conducted according to guideline

Test Type: Chromosome aberration test in vitro
Method: OPPTS 870.5375
Result: negative
Remarks: The test was conducted according to guideline

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 474
Result: negative
Remarks: The test was conducted according to guideline
Based on data from similar materials

Carcinogenicity

Not classified based on available information.

Components:

2-Bromo-2-nitro- 1,3-propanediol:

Species : Rat
Application Route : Ingestion
Exposure time : 104 weeks
Result : negative

Methyl (4aS)-7-chloro-2-((methoxycarbonyl)[4-(trifluoromethoxy)phenyl]carbamoyl)-2,5-dihydroindeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate:

Species : Mouse
Application Route : Ingestion
Exposure time : 18 Months
Method : OPPTS 870.4300
Result : negative
Remarks : The test was conducted according to guideline

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Endius Cockroach Gel Bait

Version	Revision Date:	SDS Number:	Date of last issue: 01/22/2026
1.2	04/09/2026	11539228-00003	Date of first issue: 05/28/2025

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

2-Bromo-2-nitro- 1,3-propanediol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 416
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Result: negative

Methyl (4aS)-7-chloro-2-((methoxycarbonyl)[4-(trifluoromethoxy)phenyl]carbamoyl)-2,5-dihydroindeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Method: OPPTS 870.3700
Result: negative
Remarks: The test was conducted according to guideline

Effects on fetal development : Test Type: Fertility/early embryonic development
Species: Rat
Application Route: Ingestion
Method: OPPTS 870.6300
Result: negative
Remarks: The test was conducted according to guideline

STOT-single exposure

Not classified based on available information.

Components:

2-Bromo-2-nitro- 1,3-propanediol:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

Not classified based on available information.

Components:

2-Bromo-2-nitro- 1,3-propanediol:

Assessment : No significant health effects observed in animals at concentra-

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Endius Cockroach Gel Bait

Version	Revision Date:	SDS Number:	Date of last issue: 01/22/2026
1.2	04/09/2026	11539228-00003	Date of first issue: 05/28/2025

tions of 100 mg/kg bw or less.

Methyl (4aS)-7-chloro-2-((methoxycarbonyl)[4-(trifluoromethoxy)phenyl]carbamoyl)-2,5-dihydroindeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate:

Routes of exposure	: Ingestion
Target Organs	: Blood, Nervous system, Heart
Assessment	: Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less.

Repeated dose toxicity

Components:

2-Bromo-2-nitro- 1,3-propanediol:

Species	: Rat
NOAEL	: < 20 mg/kg
LOAEL	: 20 mg/kg
Application Route	: Ingestion
Exposure time	: 13 Weeks

Methyl (4aS)-7-chloro-2-((methoxycarbonyl)[4-(trifluoromethoxy)phenyl]carbamoyl)-2,5-dihydroindeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate:

Species	: Rat, female
NOAEL	: 2.1 mg/kg
LOAEL	: 3.8 mg/kg
Application Route	: Ingestion
Exposure time	: 90 Days
Method	: OPPTS 870.3100
Remarks	: The test was conducted according to guideline

Species	: Rat
NOAEL	: 50 mg/kg
LOAEL	: 500 mg/kg
Application Route	: Skin contact
Exposure time	: 28 Days
Method	: OPPTS 870.3200
Remarks	: The test was conducted according to guideline

Species	: Rat
NOAEL	: 28 µg/l
LOAEL	: 290 µg/l
Application Route	: inhalation (dust/mist/fume)
Exposure time	: 28 Days
Method	: OPPTS 870.3465
Remarks	: The test was conducted according to guideline

Aspiration toxicity

Not classified based on available information.

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Endius Cockroach Gel Bait

Version	Revision Date:	SDS Number:	Date of last issue: 01/22/2026
1.2	04/09/2026	11539228-00003	Date of first issue: 05/28/2025

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

2-Bromo-2-nitro- 1,3-propanediol:

- | | | |
|--|---|---|
| Toxicity to fish | : | LC50 (Lepomis macrochirus (Bluegill sunfish)): 11 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203 |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 1.4 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202 |
| Toxicity to algae/aquatic plants | : | ErC50 (Desmodesmus subspicatus (green algae)): 0.007 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

EC10 (Desmodesmus subspicatus (green algae)): 0.005 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201 |
| Toxicity to fish (Chronic toxicity) | : | NOEC (Oncorhynchus mykiss (rainbow trout)): 2.61 mg/l
Exposure time: 28 d
Method: OECD Test Guideline 215 |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia magna (Water flea)): 0.27 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211 |
| Toxicity to microorganisms | : | EC50 (activated sludge): 43 mg/l
Exposure time: 150 min
Method: OECD Test Guideline 209 |

Methyl (4aS)-7-chloro-2-((methoxycarbonyl)[4-(trifluoromethoxy)phenyl]carbamoyl)-2,5-dihydroindeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate:

- | | | |
|---|---|--|
| Toxicity to fish | : | LC50 (Ictalurus punctatus (channel catfish)): > 0.1 - 1 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Mysidopsis bahia (opossum shrimp)): > 0.01 - 0.1 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials |
| Toxicity to algae/aquatic plants | : | ErC50 (Pseudokirchneriella subcapitata (green algae)): > 0.1 mg/l
Exposure time: 72 h
Remarks: Based on data from similar materials

NOEC (Pseudokirchneriella subcapitata (green algae)): > 0.1 mg/l
Exposure time: 72 h |

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Endius Cockroach Gel Bait

Version	Revision Date:	SDS Number:	Date of last issue: 01/22/2026
1.2	04/09/2026	11539228-00003	Date of first issue: 05/28/2025

Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOEC: > 0.1 - 1 mg/l
Exposure time: 90 d
Method: OECD Test Guideline 210
Remarks: The test was conducted according to guideline
Based on data from similar materials

Toxicity to terrestrial organisms : LD50 (Colinus virginianus (Bobwhite quail)): 98 mg/kg
LC50 (Anas platyrhynchos (Mallard duck)): > 5,620 mg/kg
LD50 (Apis mellifera (bees)): 0.18 µg/bee

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.19 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.16 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Skeletonema costatum (marine diatom)): 0.0052 mg/l
Exposure time: 48 h

NOEC (Skeletonema costatum (marine diatom)): 0.00049 mg/l
Exposure time: 48 h

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 0.02 mg/l
Exposure time: 36 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.10 mg/l
Exposure time: 21 d

Persistence and degradability

Components:

2-Bromo-2-nitro- 1,3-propanediol:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 20 %
Exposure time: 28 d

Methyl (4aS)-7-chloro-2-((methoxycarbonyl)[4-(trifluoromethoxy)phenyl]carbamoyl)-2,5-dihydroindeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate:

Biodegradability : Result: Not readily biodegradable.
Method: OECD Test Guideline 301C
Remarks: The test was conducted according to guideline
Based on data from similar materials

Biodegradation Simulation Tests : Environmental Compartment: Fresh water
Value type: DT50

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Endius Cockroach Gel Bait

Version	Revision Date:	SDS Number:	Date of last issue: 01/22/2026
1.2	04/09/2026	11539228-00003	Date of first issue: 05/28/2025

Value: < 40 d
Temperature: 12 °C
Remarks: Based on data from similar materials

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 62 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

Bioaccumulative potential

Components:

2-Bromo-2-nitro- 1,3-propanediol:

Partition coefficient: n- : log Pow: 0.15
octanol/water Method: OECD Test Guideline 107

Methyl (4aS)-7-chloro-2-((methoxycarbonyl)[4-(trifluoromethoxy)phenyl]carbamoyl)-2,5-dihydroindeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate:

Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 77.3
Method: OECD Test Guideline 305
Remarks: The test was conducted according to guideline

Partition coefficient: n- : log Pow: 4.65
octanol/water Method: Regulation (EC) No. 440/2008, Annex, A.8
Remarks: The test was conducted according to guideline

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1):

Partition coefficient: n- : log Pow: < 1
octanol/water

Mobility in soil

Components:

Methyl (4aS)-7-chloro-2-((methoxycarbonyl)[4-(trifluoromethoxy)phenyl]carbamoyl)-2,5-dihydroindeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate:

Distribution among environ- : log Koc: > 3
mental compartments Remarks: Based on data from similar materials

Other adverse effects

No data available

Endocrine disrupting properties

No data available

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Endius Cockroach Gel Bait

Version	Revision Date:	SDS Number:	Date of last issue: 01/22/2026
1.2	04/09/2026	11539228-00003	Date of first issue: 05/28/2025

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines. Do not dispose of waste into sewer.
Contaminated packaging	:	Follow advice on product label and/or leaflet. Empty containers retain residue and can be dangerous. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2-Bromo-2-nitro- 1,3-propanediol, Methyl (4aS)-7-chloro-2- {(methoxycarbonyl)[4-(trifluoromethoxy)phenyl]carbamoyl}- 2,5-dihydroindeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes

IATA-DGR

UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (2-Bromo-2-nitro- 1,3-propanediol, Methyl (4aS)-7-chloro-2- {(methoxycarbonyl)[4-(trifluoromethoxy)phenyl]carbamoyl}- 2,5-dihydroindeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passenger aircraft)	:	956
Environmentally hazardous	:	yes

IMDG-Code

UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (2-Bromo-2-nitro- 1,3-propanediol, Methyl (4aS)-7-chloro-2- {(methoxycarbonyl)[4-(trifluoromethoxy)phenyl]carbamoyl}- 2,5-dihydroindeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate)
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Endius Cockroach Gel Bait

Version	Revision Date:	SDS Number:	Date of last issue: 01/22/2026
1.2	04/09/2026	11539228-00003	Date of first issue: 05/28/2025

Marine pollutant : yes

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number	: UN 3077
Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (2-Bromo-2-nitro- 1,3-propanediol, Methyl (4aS)-7-chloro-2- {(methoxycarbonyl)[4-(trifluoromethoxy)phenyl]carbamoyl}- 2,5-dihydroindeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate)
Class	: 9
Packing group	: III
Labels	: CLASS 9
ERG Code	: 171
Marine pollutant	: yes(2-Bromo-2-nitro- 1,3-propanediol, Methyl (4aS)-7-chloro- 2-{(methoxycarbonyl)[4-(trifluoromethoxy)phenyl]carbamoyl}- 2,5-dihydroindeno[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate)
Remarks	: Above applies only to containers over 119 gallons (450 liters) in case of liquids, or 882 lbs. (400 kg) in case of solids. Shipment by ground under DOT is non-regulated for non-bulk packaging; however it may be shipped per the applicable ha- zard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Respiratory or skin sensitization

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Product Type : Insecticides, acaricides and products to control other arthro-
pods

Active substance : 0.6 %
Methyl (4aS)-7-chloro-2-{(methoxycarbonyl)[4-
(trifluoromethoxy)phenyl]carbamoyl}-2,5-dihydroindeno[1,2-

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Endius Cockroach Gel Bait

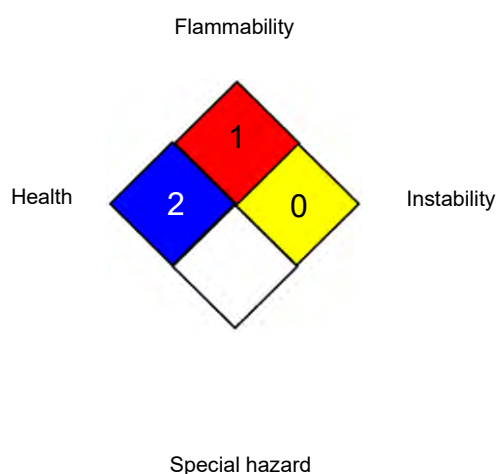
Version	Revision Date:	SDS Number:	Date of last issue: 01/22/2026
1.2	04/09/2026	11539228-00003	Date of first issue: 05/28/2025

e)[1,3,4]oxadiazine-4a(3H)-carboxylate

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV / CED:

HEALTH	/	2
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic sub-

SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



Endius Cockroach Gel Bait

Version	Revision Date:	SDS Number:	Date of last issue: 01/22/2026
1.2	04/09/2026	11539228-00003	Date of first issue: 05/28/2025

stance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 04/09/2026

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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