

SAFETY DATA SHEET

PREVENTOL A 12-TK 48



Version	Revision Date:	SDS Number:	Date of last issue: 10/22/2020
1.1	10/22/2020	203000014006	Country / Language: US / EN

SECTION 1. IDENTIFICATION

Product name : PREVENTOL A 12-TK 48

Product code : 000000000062024476

EPA registration number : 39967-151

Manufacturer or supplier's details

Company : LANXESS Corporation
Product Safety & Regulatory Affairs
111 RIDC Park West Drive
Pittsburgh, Pennsylvania 15275-1112

Responsible Department : (800) LANXESS
(412) 809-1000
lanxesshes@lanxess.com

Emergency telephone : CHEMTREC (800) 424-9300 or
(703) 527-3887 (Outside U.S.A) and mention CCN12916.
Lanxess Emergency Phone (800) 410-3063.

Recommended use of the chemical and restrictions on use

Recommended use : Biocide for industrial application

SECTION 2. HAZARDS IDENTIFICATION

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

Flammable liquids : Category 4

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

Skin sensitization : Category 1

Reproductive toxicity : Category 1B

Specific target organ toxicity : Category 3 (Respiratory system)
- single exposure

Specific target organ toxicity : Category 1 (larynx)
- repeated exposure

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GHS label elements

Hazard pictograms



Signal Word

: Danger

Hazard Statements

: Combustible liquid.
Harmful if swallowed or if inhaled.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
May cause respiratory irritation.
May damage the unborn child.
Causes damage to organs (larynx) through prolonged or repeated exposure.

Precautionary Statements

: **Prevention:**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
IF exposed or concerned: Get medical advice/ attention.
If skin irritation or rash occurs: Get medical advice/ attention.
Take off contaminated clothing and wash before reuse.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

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Storage:

Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Dipropylene glycol methyl ether	34590-94-8	>= 30 - < 50
1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole	60207-90-1	>= 30 - < 50
3-iodo-2-propynyl butylcarbamate	55406-53-6	>= 10 - < 20

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Get medical attention immediately.
Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If unconscious, place in recovery position and get medical attention immediately.
Maintain open airway.
Loosen tight clothing such as a collar, tie, belt or waistband.
If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 30 minutes.
Get medical attention immediately.

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Remove contaminated clothing and shoes.
Wash clothing before reuse.

Wash off with soap and plenty of water.

In case of eye contact : Get medical attention immediately.
Remove contact lenses, if present and easy to do. Continue rinsing.
Continue rinsing eyes during transport to hospital.
Chemical burns must be treated promptly by a physician.
In case of contact, flush eyes with plenty of water for at least 30 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated.

If swallowed : Get medical attention immediately.
Rinse mouth with water.
If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.
If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
Never give anything by mouth to an unconscious person.
If unconscious, place in recovery position and get medical attention immediately.
Maintain open airway.
Loosen tight clothing such as a collar, tie, belt or waistband.

Keep respiratory tract clear.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
Take victim immediately to hospital.

Most important symptoms and effects, both acute and delayed

Symptoms : Eye: Corrosive with symptoms of reddening, tearing, swelling, burning and possible permanent damage.
Skin: Causes irritation with symptoms of reddening, itching, and swelling.
May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose.
Symptoms of ingestion may include abdominal pain, nausea, vomiting, and diarrhea.

Effects : Harmful if swallowed or if inhaled.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
May cause respiratory irritation.
May damage the unborn child.
Causes damage to organs through prolonged or repeated exposure.

Protection of first-aiders : No action shall be taken involving any personal risk or without

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suitable training.

Notes to physician : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- None known.
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide
Nitrogen oxides (NO_x)
Halogenated compounds
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for fire-fighters : Wear self-contained breathing apparatus for firefighting if necessary.
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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training.
Evacuate personnel to safe areas.
Keep unnecessary and unprotected personnel from entering.
Do not touch or walk through spilled material.
Do not breathe vapors or spray mist.
Put on appropriate personal protection equipment.
Use personal protective equipment.
- Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Local authorities should be advised if significant spillages cannot be contained.
- Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
- Methods and materials for : Dispose of wastes in an approved waste disposal facility.
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containment and cleaning up Stop leak if safe to do so.
Move containers from spill area.
Wash spillages into an effluent treatment plant or proceed as follows.
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Contaminated absorbent material may pose the same hazard as the spilled product.

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapors/dust.
Avoid contact with skin and eyes.
For personal protection see section 8.
Do not smoke.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.

Smoking, eating and drinking should be prohibited in the application area.
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Conditions for safe storage : No smoking.
Keep in a well-ventilated place.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Recommended storage temperature : < 104 °F / < 40 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Dipropylene glycol methyl ether	34590-94-8	TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH

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		TWA	100 ppm 600 mg/m ³	OSHA Z-1
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Engineering measures : This information is not available.

Personal protective equipment

Respiratory protection : In the case of vapor formation use a respirator with an approved filter.

Filter type : Recommended Filter type:

Combined inorganic and acidic gas/vapor, ammonia/amines and organic vapor type

In the case of vapor formation use a respirator with an approved filter.

Hand protection

Material : Fluorinated rubber - FKM

Wearing time : < 60 min

Material : Polyvinyl chloride - PVC

Wearing time : < 60 min

Material : Butyl rubber - IIR

Wearing time : < 60 min

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations

Eye protection : Safety glasses

Skin and body protection : Protective suit
Impervious clothing

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid

Color : yellow to brown

Odor : No data available

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Odor Threshold	:	No data available
pH	:	Not applicable
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	171 °F / 77 °C
		Method: DIN EN ISO 2719/A, closed cup
Evaporation rate	:	No data available
Self-ignition	:	No data available
Burning number	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative density	:	No data available
Density	:	1.1 g/cm ³ (68 °F / 20 °C)
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available

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SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Vapors may form explosive mixture with air.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	No specific data.
Hazardous decomposition products	:	No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

The most important known symptoms and effects are described in Section 2 and/or Section 4.

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity	:	LD50 (Rat, female): 1,098 mg/kg Method: OECD Test Guideline 425
Acute inhalation toxicity	:	LC50 (Rat): > 2.08 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 402

Components:

Dipropylene glycol methyl ether:

Acute oral toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 401 GLP: no
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 1.667 mg/l Exposure time: 7 h Test atmosphere: vapor Method: OECD Test Guideline 403 GLP: no Assessment: The substance or mixture has no acute inhalation toxicity

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Remarks: Dosage caused no mortality
Highest producible concentration.

Acute dermal toxicity : LD50 (Rabbit, male): 9,510 mg/kg
Method: OECD Test Guideline 402
GLP: no

1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole:

Acute oral toxicity : LD50 (Rat): 1,517 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.8 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Highest producible concentration.

Acute dermal toxicity : LD50 (Rat): > 4,000 mg/kg

3-iodo-2-propynyl butylcarbamate:

Acute oral toxicity : LD50 (Rat): > 300 - 500 mg/kg
Method: OECD Test Guideline 423

Acute inhalation toxicity : LC50 (Rat, male and female): 0.67 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes
Remarks: Extrapolation according to Regulation (EC) No. 440/2008

Skin corrosion/irritation

Causes skin irritation.

Product:

Result : Irritating to skin.
Remarks : Moderate skin irritation

Components:

Dipropylene glycol methyl ether:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation
GLP : no

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1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole:

Remarks : Mild skin irritation
Based on available data, the classification criteria are not met.

3-iodo-2-propynyl butylcarbamate:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : Moderate eye irritation

Components:

Dipropylene glycol methyl ether:

Result : Irritating to eyes.

1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole:

Remarks : Mild eye irritation
Based on available data, the classification criteria are not met.

3-iodo-2-propynyl butylcarbamate:

Species : Rabbit
Result : Risk of serious damage to eyes.
Method : OECD Test Guideline 405

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Components:

Dipropylene glycol methyl ether:

Routes of exposure : Skin contact
Species : Humans
Result : Not a skin sensitizer.
GLP : no
Remarks : Patch test on human volunteers did not demonstrate sensitization properties.

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1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole:

Routes of exposure : Skin contact
Species : Guinea pig
Result : May cause sensitization by skin contact.

3-iodo-2-propynyl butylcarbamate:

Routes of exposure : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : May cause sensitization by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Components:

Dipropylene glycol methyl ether:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Ames test
Test system: Escherichia coli
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster lung cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster fibroblasts
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: No information available.
Remarks: Test results on an analogous product

1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole:

Genotoxicity in vitro : Test Type: Ames test

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Test system: Bacteria
Method: OECD Test Guideline 471
Result: negative

Remarks: Not mutagenic in a standard battery of genetic toxicological tests.

3-iodo-2-propynyl butylcarbamate:

Genotoxicity in vitro : Test system: Bacteria
Method: OECD Test Guideline 471
Result: negative

Test system: Mammalian-Animal
Method: OECD Test Guideline 476
Result: negative

Test system: Mammalian-Animal
Method: OECD Test Guideline 473
Result: negative

Carcinogenicity

Not classified based on available information.

Components:

1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole:

Remarks : Animal testing did not show any carcinogenic effects.

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.

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

May damage the unborn child.

Components:

Dipropylene glycol methyl ether:

Effects on fertility : Species: Rat, male and female
Application Route: inhalation (vapor)
General Toxicity Parent: NOAEC: 300 ppm
General Toxicity F1: NOAEC: 1,000 ppm
General Toxicity F2: NOAEC: 1,000 ppm
Fertility: NOAEC Parent: 1,000 parts per million
Method: OECD Test Guideline 416

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Result: Animal testing did not show any effects on fertility.
GLP: yes
Remarks: Test results on an analogous product

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat, female
Application Route: inhalation (vapor)
Dose: 50 - 150 - 300 parts per million
General Toxicity Maternal: NOAEC: 300 ppm
Developmental Toxicity: NOAEC: 300 ppm
Embryo-fetal toxicity.: NOAEC: 300 ppm
Result: No teratogenic effects.
GLP: yes

Test Type: Embryo-fetal development
Species: Rabbit, female
Application Route: inhalation (vapor)
Dose: 50 - 150 - 300 parts per million
General Toxicity Maternal: NOAEC: 300 ppm
Developmental Toxicity: NOAEC: 300 ppm
Embryo-fetal toxicity.: NOAEC: 300 ppm
Result: No teratogenic effects.
GLP: yes

1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole:

Reproductive toxicity - Assessment : Clear evidence of adverse effects on development, based on animal experiments.

STOT-single exposure

May cause respiratory irritation.

Product:

Routes of exposure : Inhalation
Target Organs : Respiratory system
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Components:

Dipropylene glycol methyl ether:

Assessment : May cause drowsiness or dizziness., May cause respiratory irritation.

STOT-repeated exposure

Causes damage to organs (larynx) through prolonged or repeated exposure.

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Components:

3-iodo-2-propynyl butylcarbamate:

Target Organs	:	larynx
Assessment	:	Causes damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

Dipropylene glycol methyl ether:

Species	:	Rat, male and female
NOAEL	:	1000 mg/kg
Application Route	:	Oral
Exposure time	:	28 d
Dose	:	40 - 200 - 1000 mg/kg bw/d
GLP	:	yes
Remarks	:	Subacute toxicity

Species	:	Rat, male and female
NOAEL	:	$\geq 1212 \text{ mg/m}^3$
Application Route	:	Inhalation
Test atmosphere	:	vapor
Exposure time	:	90 d
Dose	:	91 - 303 - 1212 mg/m ³
Method	:	OECD Test Guideline 413
GLP	:	yes
Remarks	:	Subchronic toxicity

3-iodo-2-propynyl butylcarbamate:

Species	:	Rat
NOAEL	:	1,16 mg/m ³
Application Route	:	Inhalation
Test atmosphere	:	dust/mist
Exposure time	:	91 d
Number of exposures	:	7 days/week
Method	:	OECD Test Guideline 413
GLP	:	yes
Remarks	:	Subchronic toxicity

Species	:	Rat
NOAEL	:	20 mg/kg
Application Route	:	Oral
Exposure time	:	2 yr
Number of exposures	:	7 days/week
Remarks	:	Chronic toxicity

Aspiration toxicity

Not classified based on available information.

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Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Dipropylene glycol methyl ether:

Toxicity to fish	:	LC50 (Poecilia reticulata (guppy)): > 1,000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 GLP: yes Remarks: Fresh water
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1,919 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 GLP: no Remarks: Fresh water
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (algae)): > 969 mg/l End point: Growth rate Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes Remarks: Fresh water NOEC (Pseudokirchneriella subcapitata (algae)): 969 mg/l End point: Growth rate Exposure time: 72 h Method: OECD Test Guideline 201 GLP: yes Remarks: Fresh water
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): >= 0.5 mg/l End point: Reproduction Exposure time: 21 d Method: OECD Test Guideline 211 GLP: yes Remarks: Fresh water
Toxicity to microorganisms	:	EC10 (Pseudomonas putida): 4,168 mg/l End point: Growth rate Exposure time: 18 h GLP: yes

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1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 4.3 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 10.2 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 EC50 (Mysidopsis bahia (opossum shrimp)): 0.51 mg/l Exposure time: 96 h
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 0.76 mg/l Exposure time: 72 h Remarks: Fresh water

3-iodo-2-propynyl butylcarbamate:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 0.067 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Fresh water
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.16 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 GLP: yes Remarks: Fresh water
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 0.022 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Fresh water NOEC (Desmodesmus subspicatus (green algae)): 0.0046 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Fresh water
Toxicity to fish (Chronic toxicity)	:	NOEC (Pimephales promelas (fathead minnow)): 0.0084 mg/l Exposure time: 35 d Method: OECD Test Guideline 210 Remarks: Fresh water
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.05 mg/l Exposure time: 21 d Remarks: Fresh water
Toxicity to microorganisms	:	EC50 (activated sludge): 44 mg/l Exposure time: 3 h

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Persistence and degradability

Components:

Dipropylene glycol methyl ether:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 75 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
GLP: yes

1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole:

Biodegradability : Result: Not readily biodegradable.

3-iodo-2-propynyl butylcarbamate:

Biodegradability : Concentration: 0.02 mg/l
Biodegradation: > 80 %
Exposure time: 1 d
Method: OECD Test Guideline 302B
Remarks: IPBC is rapidly transformed in the environment to PBC

Result: Readily biodegradable.

Bioaccumulative potential

Components:

Dipropylene glycol methyl ether:

Bioaccumulation : Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is not expected.

Partition coefficient: n-octanol/water : log Pow: 0.004 (77 °F / 25 °C)
Method: OECD Test Guideline 107

1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole:

Partition coefficient: n-octanol/water : log Pow: 3.72
Method: OECD Test Guideline 107

3-iodo-2-propynyl butylcarbamate:

Partition coefficient: n-octanol/water : log Pow: 2.8
Method: measured

Mobility in soil

No data available

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Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

RCRA - Resource Conservation and Recovery Authorization Act : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

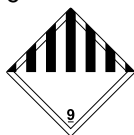
Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Send to a licensed waste management company.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN/ID No.	: UN 3082
Proper shipping name	: Environmentally hazardous substance, liquid, n.o.s. (PROPICONAZOLE, 3-iodo-2-propinyl-N-butylcarbamate)
Class	: 9
Packing group	: III
Labels	: 9



Packing instruction (cargo aircraft)	: 964 : 450.00 L
Packing instruction (passenger aircraft)	: 964 : 450.00 L
Environmentally hazardous	: yes



IMDG-Code

UN number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROPICONAZOLE, 3-iodo-2-propinyl-N-

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Class : BUTYLCARBAMATE)
Packing group : 9
Labels : III
: 9
:



EmS Code : F-A, S-F
Marine pollutant : yes



Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

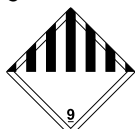
Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number : UN 3082
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(PROPICONAZOLE, 3-iodo-2-propinyl-N-
BUTYLCARBAMATE)

Class : 9
Packing group : III
Labels : 9
:



ERG Code : 171
Marine pollutant : yes



The U.S. DOT regulations in 49 CFR 172.102 permit this material to ship as an Environmentally Hazardous Substance, Class 9, using Special Provision 146.

Hazard and Handling Notes. : Environmentally hazardous substance., Risk of serious damage to eyes, Keep separated from foodstuffs

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.

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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 302 Extremely Hazardous Substances Threshold Planning Quantity

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

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Acute toxicity (any route of exposure)
Respiratory or skin sensitization
Reproductive toxicity
Skin corrosion or irritation
Serious eye damage or eye irritation
Specific target organ toxicity (single or repeated exposure)

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole	60207-90-1	>= 30 - < 50 %
3-iodo-2-propynyl butylcarbamate	55406-53-6	>= 10 - < 20 %

US State Regulations

Massachusetts Right To Know

Dipropylene glycol methyl ether	34590-94-8	>= 30 - < 50
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Pennsylvania Right To Know

Dipropylene glycol methyl ether	34590-94-8	>= 30 - < 50
1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-triazole	60207-90-1	>= 30 - < 50
3-iodo-2-propynyl butylcarbamate	55406-53-6	>= 10 - < 20

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

TSCA inventory

TSCA : This product is regulated under the United States Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).

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TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

FIFRA information

EPA registration number : 39967-151

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:

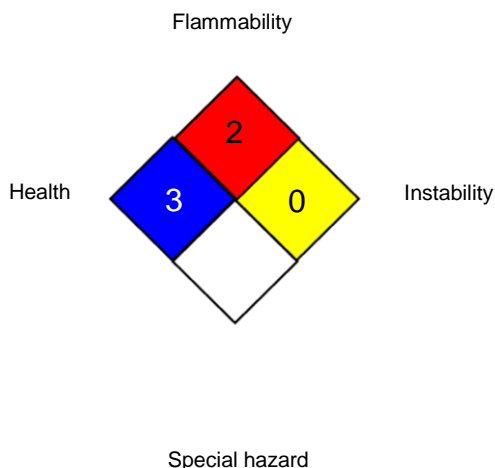
Signal Word : CAUTION

Hazard Statements : Causes moderate eye irritation. Harmful if swallowed, in contact with skin or if inhaled. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH	*	3
FLAMMABILITY		2
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

ACGIH : USA. ACGIH Threshold Limit Values (TLV)
OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA : 8-hour, time-weighted average

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ACGIH / STEL : Short-term exposure limit
OSHA Z-1 / TWA : 8-hour time weighted average

AICS - Australian Inventory of Chemical Substances; 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 Standardisation; 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 Organisation 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 substance; 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, Authorisation 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; 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

Revision Date : 10/22/2020

The data contained in this Safety Data Sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered to be a guidance for processing and does not contain any warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. It is the responsibility of the recipient of the product to ensure that any proprietary rights and existing laws and legislation are observed.