according to the OSHA Hazard Communication Standard



Thwartex™

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/13/2025 800080005979 Date of first issue: 02/13/2025

Corteva Agriscience™ encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

SECTION 1. IDENTIFICATION

Product name : Thwartex™

Manufacturer or supplier's details

COMPANY IDENTIFICATION

Manufacturer/importer : CORTEVA AGRISCIENCE LLC

9330 ZIONSVILLE RD

INDIANAPOLIS, IN, 46268-1053

UNITED STATES

Customer Information

Number

: 1-800-258-3033

E-mail address : customerinformation@corteva.com

Emergency telephone : INFOTRAC (CONTRACT 84224)

+1 800-992-5994 or +1 317-337-6009

Recommended use of the chemical and restrictions on use

Recommended use : End use insecticide product

SECTION 2. HAZARDS IDENTIFICATION

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

Not a hazardous substance or mixture.

GHS label elements

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Other hazards

None known.

according to the OSHA Hazard Communication Standard



Thwartex™

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/13/2025 800080005979 Date of first issue: 02/13/2025

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Concentration (% w/w)
Methoxyfenozide	161050-58-4	22.6
Propylene glycol	57-55-6	>= 3 - < 10
Alcohols, C11-14-iso-, C13-rich, eth-	78330-21-9	>= 1 - < 3
oxylated		
Balance	Not Assigned	> 60

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

If inhaled : Move person to fresh air. If person is not breathing, call an

emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment

advice.

In case of skin contact : Take off contaminated clothing. Rinse skin immediately with

plenty of water for 15-20 minutes. Call a poison control center

or doctor for treatment advice.

In case of eye contact : Hold eyes open and rinse slowly and gently with water for 15-

20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control

center or doctor for treatment advice.

If swallowed : No emergency medical treatment necessary.

Most important symptoms and effects, both acute and

delayed

None known.

Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

Notes to physician : No specific antidote.

Treatment of exposure should be directed at the control of

symptoms and the clinical condition of the patient.

Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or

doctor, or going for treatment.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Water spray

Alcohol-resistant foam

Unsuitable extinguishing

media

None known.

according to the OSHA Hazard Communication Standard



Thwartex™

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/13/2025 800080005979 Date of first issue: 02/13/2025

Specific hazards during fire

fighting

Exposure to combustion products may be a hazard to health. Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod-

ucts

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may

be toxic and/or irritating.

Combustion products may include and are not limited to:

Carbon oxides

Nitrogen oxides (NOx)

Specific extinguishing meth-

ods

: Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Use water spray to cool unopened containers.

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 nec-

essary.

Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emer-

gency procedures

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions : If the product contaminates rivers and lakes or drains inform

respective authorities.

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g., by containment or

oil barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

Prevent from entering into soil, ditches, sewers, underwater.

See Section 12, Ecological Information.

according to the OSHA Hazard Communication Standard



Thwartex™

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/13/2025 800080005979 Date of first issue: 02/13/2025

Methods and materials for containment and cleaning up

: Clean up remaining materials from spill with suitable absorb-

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items

employed in.

For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can

be pumped,

Recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to overpressurization of the container.

Keep in suitable, closed containers for disposal. Wipe up with absorbent material (e.g. cloth, fleece).

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

See Section 13, Disposal Considerations, for additional infor-

mation.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Do not breathe vapors/dust.

Handle in accordance with good industrial hygiene and safety

practice.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Take care to prevent spills, waste and minimize release to the

environment.

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Conditions for safe storage : Store in a closed container.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Keep in properly labeled containers.

Store in accordance with the particular national regulations.

Materials to avoid : Strong oxidizing agents

Packaging material : Unsuitable material: None known.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Methoxyfenozide	161050-58-4	TWA (Respirable fraction)	3 mg/m3	Corteva OEL
		TWA (Inhal-	10 mg/m3	Corteva OEL

according to the OSHA Hazard Communication Standard



Thwartex[™]

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/13/2025 800080005979 Date of first issue: 02/13/2025

		able fraction)		
Propylene glycol	57-55-6	TWA	10 mg/m3	US WEEL

Engineering measures

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations.

Local exhaust ventilation may be necessary for some opera-

tions.

Personal protective equipment

Respiratory protection

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

Hand protection

Remarks : Use gloves chemically resistant to this material when pro-

longed or frequently repeated contact could occur. Examples of preferred glove barrier materials include: Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications

provided by the glove supplier.

Eye protection : Use safety glasses (with side shields).

Skin and body protection : Wear clean, body-covering clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid.

Color : tan

Odor : mild

Odor Threshold : No data available

according to the OSHA Hazard Communication Standard



Thwartex™

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/13/2025 800080005979 Date of first issue: 02/13/2025

pH : 7

Melting point/ range : Not applicable

Freezing point No data available

Boiling point/boiling range : No data available

Flash point : $> 212 \,^{\circ}\text{F} / 100 \,^{\circ}\text{C}$

Method: closed cup

Flammability (solid, gas) : Not applicable to liquids

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : No data available

Density : 1.06 g/cm3 (68 °F / 20 °C)

Solubility(ies)

Water solubility : No data available

Autoignition temperature : No data available

Viscosity

Viscosity, kinematic : No data available

Explosive properties : No

Oxidizing properties : No

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : No decomposition if stored and applied as directed.

Stable under normal conditions.

according to the OSHA Hazard Communication Standard



Thwartex™

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/13/2025 800080005979 Date of first issue: 02/13/2025

Possibility of hazardous reac-

tions

Stable under recommended storage conditions.

No hazards to be specially mentioned.

None known.

Conditions to avoid : None known.

Incompatible materials : None.

Hazardous decomposition

products

Decomposition products depend upon temperature, air supply

and the presence of other materials.

Decomposition products can include and are not limited to:

Carbon oxides

Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 423

Symptoms: No deaths occurred at this concentration. Remarks: Information source: Internal study report

Acute inhalation toxicity : LC50 (Rat): > 0.9 mg/l

Exposure time: 4 h

Test atmosphere: Aerosol

Method: OECD Test Guideline 436

Symptoms: The LC50 value is greater than the Maximum Attainable Concentration., No deaths occurred at this concen-

tration.

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Information source: Internal study report

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Method: OECD Test Guideline 402

Symptoms: No deaths occurred at this concentration.

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Information source: Internal study report

Components:

Methoxyfenozide:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 4.3 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

according to the OSHA Hazard Communication Standard



Thwartex™

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/13/2025 800080005979 Date of first issue: 02/13/2025

Remarks: Maximum attainable concentration.

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

Propylene glycol:

Acute oral toxicity : LD50 (Rat): > 20,000 mg/kg

Acute inhalation toxicity : LC50 (Rabbit): 317.042 mg/l

Exposure time: 2 h

Test atmosphere: dust/mist

Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Mist may cause irritation of upper respiratory tract

(nose and throat).

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Symptoms: No deaths occurred at this concentration.

Assessment: The substance or mixture has no acute dermal

toxicity

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Acute oral toxicity : LD50 (Rat): 500 - 2,000 mg/kg

Skin corrosion/irritation

Product:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Remarks : Information source: Internal study report

Components:

Methoxyfenozide:

Species : Rabbit

Result : No skin irritation

Propylene glycol:

Species : Rabbit

Result : No skin irritation

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Species : Rabbit

Result : No skin irritation

according to the OSHA Hazard Communication Standard



Thwartex[™]

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/13/2025 800080005979 Date of first issue: 02/13/2025

Serious eye damage/eye irritation

Product:

Species : Rabbit

Result : No eye irritation

Method : OECD Test Guideline 405

Remarks : Information source: Internal study report

Components:

Methoxyfenozide:

Species : Rabbit

Result : No eye irritation

Propylene glycol:

Species : Rabbit

Result : No eye irritation

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Species : Rabbit Result : Corrosive

Respiratory or skin sensitization

Product:

Test Type : Local lymph node assay

Species : Guinea pig

Assessment : Does not cause skin sensitization.

Method : OECD Test Guideline 429

Remarks : Information source: Internal study report

Components:

Methoxyfenozide:

Species : Guinea pig

Result : Does not cause skin sensitization.

Propylene glycol:

Species : Humans

Result : Does not cause skin sensitization.

Germ cell mutagenicity

Components:

Methoxyfenozide:

Germ cell mutagenicity - : In vitro genetic toxicity studies were negative., Animal genetic

Assessment toxicity studies were negative.

according to the OSHA Hazard Communication Standard



Thwartex™

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/13/2025 800080005979 Date of first issue: 02/13/2025

Propylene glycol:

Germ cell mutagenicity - : In vitro genetic toxicity studies were negative., Animal genetic

Assessment toxicity studies were negative.

Carcinogenicity

Components:

Methoxyfenozide:Carcinogenicity - Assess-

ment

Did not cause cancer in laboratory animals.

Propylene glycol:

Carcinogenicity - Assess-

ment

Did not cause cancer in laboratory animals.

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.

OSHANo 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

Components:

Methoxyfenozide:

Reproductive toxicity - As-

sessment

In animal studies, did not interfere with reproduction.

Did not cause birth defects or any other fetal effects in labora-

tory animals.

Propylene glycol:

Reproductive toxicity - As-

sessment

In animal studies, did not interfere with reproduction., In ani-

mal studies, did not interfere with fertility.

Did not cause birth defects or any other fetal effects in labora-

tory animals.

STOT-single exposure

Product:

Assessment : Evaluation of available data suggests that this material is not

an STOT-SE toxicant.

Components:

Methoxyfenozide:

Assessment : Evaluation of available data suggests that this material is not

according to the OSHA Hazard Communication Standard



Thwartex™

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/13/2025 800080005979 Date of first issue: 02/13/2025

an STOT-SE toxicant.

Propylene glycol:

Assessment : Evaluation of available data suggests that this material is not

an STOT-SE toxicant.

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Assessment : Evaluation of available data suggests that this material is not

an STOT-SE toxicant.

STOT-repeated exposure

Product:

Assessment : Evaluation of available data suggests that this material is not

an STOT-RE toxicant.

Repeated dose toxicity

Components:

Methoxyfenozide:

Remarks : May cause methemoglobinemia, thereby impairing the blood's

ability to transport oxygen.

In animals, effects have been reported on the following or-

gans: Blood. Liver. Kidney. Thyroid.

Propylene glycol:

Remarks : In rare cases, repeated excessive exposure to propylene gly-

col may cause central nervous system effects.

Aspiration toxicity

Product:

Based on available information, aspiration hazard could not be determined.

Components:

Methoxyfenozide:

Based on physical properties, not likely to be an aspiration hazard.

Propylene glycol:

Based on physical properties, not likely to be an aspiration hazard.

according to the OSHA Hazard Communication Standard



Thwartex[™]

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/13/2025 800080005979 Date of first issue: 02/13/2025

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Based on physical properties, not likely to be an aspiration hazard.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 130 mg/l

Exposure time: 96 h

Test Type: flow-through test

Method: OECD Test Guideline 203 or Equivalent Remarks: Information source: Internal study report

LC50 (Rainbow trout (Oncorhynchus mykiss)): > 130 mg/l

Exposure time: 96 h

Test Type: flow-through test

Method: OECD Test Guideline 203 or Equivalent Remarks: Information source: Internal study report

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202 or Equivalent

EC50 (Daphnia magna (Water flea)): > 420 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202 or Equivalent Remarks: Information source: Internal study report

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100

mg/l

End point: Growth rate inhibition

Exposure time: 96 h

Method: OECD Test Guideline 201 or Equivalent

ErC50 (Scenedesmus capricornutum (fresh water algae)): >

107 mg/l

End point: Growth rate inhibition

Exposure time: 96 h

Method: OECD Test Guideline 201 or Equivalent Remarks: Information source: Internal study report

Toxicity to soil dwelling or-

ganisms

: LC50 (Eisenia fetida (earthworms)): > 1,250 mg/kg

Exposure time: 14 d

Toxicity to terrestrial organ-

isms

oral LD50 (Colinus virginianus (Bobwhite quail)): > 2,250

mg/kg

Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

according to the OSHA Hazard Communication Standard



Thwartex™

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/13/2025 800080005979 Date of first issue: 02/13/2025

Components:

Methoxyfenozide:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 4.2 mg/l

Exposure time: 96 h

Test Type: flow-through test

Method: OECD Test Guideline 203 or Equivalent

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 3.7 mg/l

Exposure time: 48 h

Test Type: flow-through test

Method: OECD Test Guideline 202 or Equivalent

EC50 (Bulinus globosus (Freshwater snail)): 0.257 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): > 3.4

mg/l

End point: Growth rate inhibition

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201 or Equivalent

Toxicity to microorganisms : EC50 (Bacteria): 10,000 mg/l

Exposure time: 30 min

Toxicity to soil dwelling or-

ganisms

LC50 (Eisenia fetida (earthworms)): > 1,213 mg/kg

Exposure time: 14 d

Toxicity to terrestrial organ-

isms

oral LD50 (Colinus virginianus (Bobwhite quail)): > 2250

mg/kg bodyweight.

dietary LC50 (Colinus virginianus (Bobwhite quail)): > 5620

mg/kg diet.

oral LD50 (Apis mellifera (bees)): > 100 micrograms/bee

Exposure time: 48 h

contact LD50 (Apis mellifera (bees)): > 100 micrograms/bee

Exposure time: 48 h

Propylene glycol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l

Exposure time: 96 h Test Type: static test

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Ceriodaphnia dubia (water flea)): 18,340 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic : ErC50 (Pseudokirchneriella subcapitata (green algae)):

according to the OSHA Hazard Communication Standard



Thwartex[™]

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/13/2025 800080005979 Date of first issue: 02/13/2025

plants 19,000 mg/l

End point: Growth rate inhibition

Exposure time: 96 h

Method: OECD Test Guideline 201

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Ceriodaphnia dubia (water flea)): 13,020 mg/l

End point: number of offspring

Exposure time: 7 d Test Type: semi-static test

Toxicity to microorganisms : NOEC (Pseudomonas putida): > 20,000 mg/l

Exposure time: 18 h

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 1 - 10 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia): > 1 - 10 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Algae): > 1 - 10 mg/l

Exposure time: 72 h

Persistence and degradability

Components:

Methoxyfenozide:

Biodegradability : Result: Not biodegradable

Remarks: Biodegradation rate may increase in soil and/or

water with acclimation.

Stability in water : Degradation half life: 802 d (25 °C) pH: 7

Photodegradation : Rate constant: 3.895E-11 cm3/s

Propylene glycol:

Biodegradability : aerobic

Result: Readily biodegradable.

Biodegradation: 81 % Exposure time: 28 d

Method: OECD Test Guideline 301F or Equivalent

Remarks: 10-day Window: Pass

Result: Readily biodegradable.

Biodegradation: 96 % Exposure time: 64 d

Method: OECD Test Guideline 306 or Equivalent Remarks: 10-day Window: Not applicable

Biochemical Oxygen De-

mand (BOD)

69.000 %

Incubation time: 5 d

according to the OSHA Hazard Communication Standard



Thwartex™

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/13/2025 800080005979 Date of first issue: 02/13/2025

70.000 %

Incubation time: 10 d

86.000 %

Incubation time: 20 d

Chemical Oxygen Demand

(COD)

1.53 kg/kg

ThOD : 1.68 kg/kg

Photodegradation : Rate constant: 1.28E-11 cm3/s

Method: Estimated.

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Biodegradability : Result: Readily biodegradable.

Biodegradation: > 90 % Exposure time: 28 d

Method: OECD Test Guideline 301E or Equivalent

Remarks: 10-day Window: Pass

Result: Readily biodegradable. Biodegradation: > 60 % Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

Remarks: 10-day Window: Pass

Bioaccumulative potential

Components:

Methoxyfenozide:

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): 11.0

Exposure time: 28 d Method: Measured

Partition coefficient: n-

octanol/water

log Pow: 3.72 (77 °F / 25 °C)

Method: OECD Test Guideline 107 or Equivalent

Remarks: Bioconcentration potential is moderate (BCF be-

tween 100 and 3000 or Log Pow between 3 and 5).

Propylene glycol:

Bioaccumulation : Bioconcentration factor (BCF): 0.09

Method: Estimated.

Partition coefficient: n-

octanol/water

log Pow: -1.07

Method: Measured

Remarks: Bioconcentration potential is low (BCF < 100 or Log

Pow < 3).

according to the OSHA Hazard Communication Standard



Thwartex™

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/13/2025 800080005979 Date of first issue: 02/13/2025

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Partition coefficient: n-

octanol/water

: Remarks: No relevant data found.

Balance:

Partition coefficient: n-

octanol/water

Remarks: No relevant data found.

Mobility in soil

Components:

Methoxyfenozide:

Distribution among environ-

mental compartments

Remarks: Potential for mobility in soil is medium (Koc between

150 and 500).

Propylene glycol:

Distribution among environ-

mental compartments

Koc: < 1

Method: Estimated.

Remarks: Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be

an important fate process.

Potential for mobility in soil is very high (Koc between 0 and

50).

Balance:

Distribution among environ-

mental compartments

Remarks: No relevant data found.

Other adverse effects

Components:

Methoxyfenozide:

Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

Propylene glycol:

Results of PBT and vPvB

assessment

: This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

according to the OSHA Hazard Communication Standard



Thwartex[™]

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/13/2025 800080005979 Date of first issue: 02/13/2025

Alcohols, C11-14-iso-, C13-rich, ethoxylated:

Results of PBT and vPvB

assessment

: Substance is not persistent, bioaccumulative, and toxic (PBT).

Substance is not very persistent and very bioaccumulative

(vPvB).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

Balance:

Results of PBT and vPvB

assessment

This substance has not been assessed for persistence, bioac-

cumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : If wastes and/or containers cannot be disposed of according

to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regu-

lations.

If the material as supplied becomes a waste, follow all appli-

cable regional, national and local laws.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Methoxyfenozide)

Class : 9
Packing group : III
Labels : 9
Environmentally hazardous : yes

IATA-DGR

UN/ID No. : UN 3082

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

(Methoxyfenozide)

Class : 9

according to the OSHA Hazard Communication Standard



Thwartex[™]

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/13/2025 800080005979 Date of first issue: 02/13/2025

Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

964

Packing instruction (passen- : 964

ger aircraft)

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Methoxyfenozide)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F

Marine pollutant : yes(Methoxyfenozide)
Remarks : Stowage category A

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 Road

Not regulated as a dangerous good

Further information

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

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

SARA 311/312 Hazards : No SARA Hazards

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.

US State Regulations

Pennsylvania Right To Know

Propylene glycol 57-55-6

The ingredients of this product are reported in the following inventories:

according to the OSHA Hazard Communication Standard



Thwartex[™]

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/13/2025 800080005979 Date of first issue: 02/13/2025

TSCA : Product contains substance(s) not listed on TSCA inventory.

TSCA list

No substances are subject to a Significant New Use Rule.

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

Federal Insecticide, Fungicide and Rodenticide Act

EPA Registration Number : 85588-18

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Harmful if absorbed through the skin Harmful if inhaled

SECTION 16. OTHER INFORMATION

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

Full text of other abbreviations

Corteva OEL : Corteva Occupational Exposure Limit

US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)

Corteva OEL / TWA : Time weighted average

US WEEL / TWA : 8-hr TWA

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM -American Society for the Testing of Materials; ECx - Concentration associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; 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; n.o.s. - not otherwise specified: NOEC - Non-Observed Effective Concentration: OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; (Q)SAR - (Quantitative) Structure Activity Relationship; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SDS - Safety Data Sheet; UN -United Nations. CFR - Code of Federal Regulations. IARC - International Agency for Research on Cancer. IATA-DGR - International Air Transport Association Dangerous Goods Regulations. OSHA - Occupational Safety and Health Administration. RCRA - Resource Conservation and Re-

according to the OSHA Hazard Communication Standard



Thwartex™

Version Revision Date: SDS Number: Date of last issue: -

1.0 02/13/2025 800080005979 Date of first issue: 02/13/2025

covery Act. RQ - Reportable Quantity. SARA - Superfund Amendments and Reauthorization Act. TSCA - Toxic Substances Control Act.

Revision Date : 02/13/2025

Product code: GF-837

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a 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.

US / EN