

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Phalanx

Version 1.0      Revision Date: 02/13/2024      SDS Number: 400000103230      Date of last issue: -  
Date of first issue: 02/13/2024

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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.

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### SECTION 1. IDENTIFICATION

Product name : Phalanx

#### 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 : Insecticide


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### SECTION 2. HAZARDS IDENTIFICATION

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

Acute toxicity (Inhalation) : Category 4  
Skin sensitization : Sub-category 1B

#### GHS label elements

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : H317 May cause an allergic skin reaction.

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H332 Harmful if inhaled.

Precautionary Statements :

**Prevention:**

P261 Avoid breathing mist or vapors.  
P271 Use only outdoors or in a well-ventilated area.  
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 soap and water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P363 Wash contaminated clothing before reuse.

**Disposal:**

P501 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) |
|--------------------|--------------|-----------------------|
| thiamethoxam (ISO) | 153719-23-4  | >= 48.4 - <= 51.4     |
| Propylene glycol   | 57-55-6      | >= 1.43 - <= 1.58     |
| Balance            | Not Assigned | > 45                  |

Actual concentration is withheld as a trade secret

### SECTION 4. FIRST AID MEASURES

General advice : Show this material safety data sheet to the doctor in attendance.

If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.  
If breathing has stopped, apply artificial respiration.  
Seek medical attention immediately.

In case of skin contact : Wash skin thoroughly with soap and water.  
In the case of skin irritation or allergic reactions see a physician.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Consult a physician if necessary.

If swallowed : Do not induce vomiting.

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|   |   |   |
|---|---|---|
| Most important symptoms and effects, both acute and delayed | : | Rinse mouth.<br>Never give something by mouth to an unconscious person.<br>Get medical attention.<br>Itching<br>Rash<br>Cough<br>wheezing<br>Breathing difficulties |
| Protection of first-aiders                                  | : | If potential for exposure exists refer to Section 8 for specific personal protective equipment.   |
| Notes to physician  | : | Treat symptomatically.  |

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### SECTION 5. FIRE-FIGHTING MEASURES

|  |   |   |
|--|---|---|
| Suitable extinguishing media                   | : | Water spray<br>Alcohol-resistant foam   |
| Unsuitable extinguishing media                 | : | None known.   |
| Specific hazards during fire fighting          | : | Exposure to combustion products may be a hazard to health.<br>Do not allow run-off from fire fighting to enter drains or water courses.   |
| Specific extinguishing methods                 | : | Remove undamaged containers from fire area if it is safe to do so.<br>Evacuate area.<br>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use water spray to cool unopened containers. |
| Further information                            | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.                         |
| Special protective equipment for fire-fighters | : | In the event of fire, wear self-contained breathing apparatus.<br>Use personal protective equipment.  |

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

|   |   |  |
|---|---|--|
| Personal precautions, protective equipment and emergency procedures | : | Ensure adequate ventilation.<br>Use personal protective equipment.<br>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.<br>Discharge into the environment must be avoided.<br>Prevent further leakage or spillage if safe to do so.<br>Prevent spreading over a wide area (e.g., by containment or oil barriers).<br>Retain and dispose of contaminated wash water.<br>Local authorities should be advised if significant spillages cannot be contained.<br>Prevent from entering into soil, ditches, sewers, underwater.<br>See Section 12, Ecological Information. |

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Methods and materials for containment and cleaning up : Clean up remaining materials from spill with suitable absorbent.  
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 over-pressurization 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 information.

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### SECTION 7. HANDLING AND STORAGE

Local/Total ventilation : Use with local exhaust ventilation.

Advice on safe handling : Avoid formation of aerosol.  
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.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapors/dust.  
Do not smoke.  
Handle in accordance with good industrial hygiene and safety practice.  
Avoid exposure - obtain special instructions before use.  
Smoking, eating and drinking should be prohibited in the application area.  
Do not get on skin or clothing.  
Do not breathe vapors or spray mist.  
Do not swallow.  
Avoid contact with skin and eyes.  
Avoid contact with eyes.  
Keep container tightly closed.  
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.

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### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

| Components         | CAS-No.     | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis       |
|--------------------|-------------|-------------------------------|--|-------------|
| thiamethoxam (ISO) | 153719-23-4 | TWA (inhalable fraction)      | 0.1 mg/m <sup>3</sup>                          | Corteva OEL |
| Propylene glycol   | 57-55-6     | TWA                           | 10 mg/m <sup>3</sup>                           | US WEEL     |

**Engineering measures** : Good general ventilation should be provided to keep dust concentrations below the exposure limits.

#### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.  
Local exhaust ventilation may be necessary for some operations.

Hand protection

Remarks : Wear suitable gloves.  
Eye protection : Wear safety glasses with side shields or goggles.  
Skin and body protection : Wear protective clothing  
Protective measures : When using do not eat, drink or smoke.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Color : opaque, white

Odor : mild, sweet

Odor Threshold : No data available

pH : 4.5 - 5.5

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : No data available

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

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|                           |   |   |
|---------------------------|---|---|
| Vapor pressure            | : | No data available                                   |
| Relative vapor density    | : | No data available                                   |
| Relative density          | : | No data available                                   |
| Density                   | : | 1.22 g/cm <sup>3</sup> (75 °F / 24 °C)              |
| Solubility(ies)           |   |   |
| Water solubility          | : | No data available                                   |
| Autoignition temperature  | : | No data available                                   |
| Decomposition temperature | : | No data available                                   |
| Viscosity                 |   |   |
| Viscosity, dynamic        | : | No data available                                   |
| Viscosity, kinematic      | : | 264 cSt (75 °F / 24 °C)<br>566 cSt (104 °F / 40 °C) |
| Explosive properties      | : | No data available                                   |
| Oxidizing properties      | : | No data available                                   |

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### SECTION 10. STABILITY AND REACTIVITY

|                                    |   |  |
|------------------------------------|---|--|
| Reactivity                         | : | Not classified as a reactivity hazard.   |
| Chemical stability                 | : | No decomposition if stored and applied as directed.<br>Stable under normal conditions.               |
| Possibility of hazardous reactions | : | Stable under recommended storage conditions.<br>No hazards to be specially mentioned.<br>None known. |
| Conditions to avoid                | : | None known.  |
| Incompatible materials             | : | None.  |

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Product:

|                           |   |   |
|---------------------------|---|---|
| Acute oral toxicity       | : | LD50: > 5,000 mg/kg<br>Remarks: As product:   |
| Acute inhalation toxicity | : | LC50: > 1.57 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Remarks: As product: |
| Acute dermal toxicity     | : | LD50: > 5,050 mg/kg   |

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Remarks: As product:

### Components:

#### **thiamethoxam (ISO):**

- Acute oral toxicity : LD50 (Rat, male and female): 1,563 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat, male and female): > 3.722 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Symptoms: No deaths occurred at this concentration.  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

#### **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 inhalation 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

### **Skin corrosion/irritation**

#### Components:

#### **thiamethoxam (ISO):**

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

#### **Propylene glycol:**

- Species : Rabbit  
Result : No skin irritation

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### Serious eye damage/eye irritation

#### Components:

##### **thiamethoxam (ISO):**

|         |   |                         |
|---------|---|-------------------------|
| Species | : | Rabbit                  |
| Result  | : | No eye irritation       |
| Method  | : | OECD Test Guideline 405 |
| GLP     | : | yes                     |

##### **Propylene glycol:**

|         |   |                   |
|---------|---|-------------------|
| Species | : | Rabbit            |
| Result  | : | No eye irritation |

### Respiratory or skin sensitization

#### Product:

|            |   |  |
|------------|---|--|
| Assessment | : | The product is a skin sensitizer, sub-category 1B. |
|------------|---|--|

#### Components:

##### **thiamethoxam (ISO):**

|           |   |                                    |
|-----------|---|------------------------------------|
| Test Type | : | Maximization Test                  |
| Species   | : | Guinea pig                         |
| Method    | : | OECD Test Guideline 406            |
| Result    | : | Does not cause skin sensitization. |

##### **Propylene glycol:**

|            |   |                                    |
|------------|---|------------------------------------|
| Species    | : | human                              |
| Assessment | : | Does not cause skin sensitization. |

### Germ cell mutagenicity

#### Components:

##### **thiamethoxam (ISO):**

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

##### **Propylene glycol:**

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



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### Carcinogenicity

#### Components:

##### **thiamethoxam (ISO):**

Carcinogenicity - Assessment : Available data suggest that the material is unlikely to cause cancer.

##### **Propylene glycol:**

Carcinogenicity - Assessment : 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.

**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

#### Product:

Reproductive toxicity - Assessment : No toxicity to reproduction

#### Components:

##### **thiamethoxam (ISO):**

Reproductive toxicity - Assessment : Suspected human reproductive toxicant  
Developmental effects were seen in laboratory animals only at dose levels that were maternally toxic.

##### **Propylene glycol:**

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction., In animal studies, did not interfere with fertility.  
Did not cause birth defects or any other fetal effects in laboratory animals.

### STOT-single exposure

#### Components:

##### **thiamethoxam (ISO):**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

##### **Propylene glycol:**

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

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### Repeated dose toxicity

#### Components:

##### **thiamethoxam (ISO):**

Remarks : In animals, effects have been reported on the following organs:  
Kidney.  
Liver.

##### **Propylene glycol:**

Remarks : In rare cases, repeated excessive exposure to propylene glycol may cause central nervous system effects.

### Aspiration toxicity

#### Components:

##### **thiamethoxam (ISO):**

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

##### **Propylene glycol:**

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

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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **thiamethoxam (ISO):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 125 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Asellus militaris (aquatic sowbug)): 0.084 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricornutum (green algae)): > 81.8 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Chironomus riparius (harlequin fly)): 0.0027 mg/l  
Exposure time: 30 d

M-Factor (Chronic aquatic toxicity) : 10

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### 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 plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 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 (Chronic 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

### Persistence and degradability

#### Components:

#### thiamethoxam (ISO):

- Biodegradability : anaerobic  
Result: Not biodegradable  
Biodegradation: 63 %  
Method: OECD Test Guideline 301B  
GLP: yes

#### 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
- Biodegradation: 96 %  
Exposure time: 64 d  
Method: OECD Test Guideline 306 or Equivalent  
Remarks: 10-day Window: Not applicable
- Biochemical Oxygen Demand (BOD) : 69.000 %  
Incubation time: 5 d

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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 cm<sup>3</sup>/s  
Method: Estimated.

### Bioaccumulative potential

#### Components:

##### **thiamethoxam (ISO):**

Partition coefficient: n-octanol/water : log Pow: < 0.1  
Remarks: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

##### **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).

##### **Balance:**

Partition coefficient: n-octanol/water : Remarks: No relevant data found.

### Mobility in soil

#### Components:

##### **thiamethoxam (ISO):**

Distribution among environmental compartments : Remarks: No relevant data found.

##### **Propylene glycol:**

Distribution among environmental 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).

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### Balance:

Distribution among environmental compartments : Remarks: No relevant data found.

### Other adverse effects

### Components:

#### thiamethoxam (ISO):

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

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.

### Balance:

Results of PBT and vPvB assessment : This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.

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## 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 regulations.  
If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

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### UNRTDG

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Thiamethoxam)  
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. (Thiamethoxam)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964

### IMDG-Code

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Thiamethoxam)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes(Thiamethoxam)  
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.

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### SECTION 15. REGULATORY INFORMATION

**SARA 311/312 Hazards** : Acute toxicity (any route of exposure)  
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.

#### US State Regulations

##### Pennsylvania Right To Know

Propylene glycol

57-55-6

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

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 : 45002-44-62719

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 inhaled, swallowed or absorbed through skin  
Causes moderate eye irritation.

### 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 (TWA):                        |
| US WEEL / TWA     | : | 8-hr TWA  |

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Phalanx

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

Revision Date : 02/13/2024

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.

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