

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## FORCE EVO

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.1     | 07/14/2026     | S00041429090 | Date of first issue: 01/19/2017 |

### SECTION 1. IDENTIFICATION

Product name : FORCE EVO  
Design code : A21581B

Product Registration number : 100-1610

#### Manufacturer or supplier's details

Company name of supplier : Syngenta Crop Protection, LLC  
Address : Post Office Box 18300  
Greensboro NC 27419  
United States of America (USA)

Telephone : 1 800 334 9481  
Telefax : 1 336 632 2192

E-mail address : sds.requests@syngenta.com  
Emergency telephone : 1 800 888 8372

#### Recommended use of the chemical and restrictions on use

Recommended use : Insecticide

Restrictions on use : Restricted Use Pesticide

### SECTION 2. HAZARDS IDENTIFICATION

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

##### Hazards for the product as supplied

Flammable liquids : Category 4  
Acute toxicity (Oral) : Category 3  
Acute toxicity (Inhalation) : Category 2  
Acute toxicity (Dermal) : Category 3  
Serious eye damage : Category 1  
Carcinogenicity : Category 2  
Specific target organ toxicity : Category 3 (Central nervous system)  
- single exposure  
Aspiration hazard : Category 1

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### Other hazards

May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

### GHS label elements

Hazard pictograms

:



Signal Word

: Danger

Hazard Statements

: H227 Combustible liquid.  
H301 + H311 Toxic if swallowed or in contact with skin.  
H304 May be fatal if swallowed and enters airways.  
H318 Causes serious eye damage.  
H330 Fatal if inhaled.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.

Supplemental Hazard Statements

: Corrosive to the respiratory tract.

Precautionary Statements

: **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe mist or vapors.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.  
P284 Wear respiratory protection.

**Response:**  
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.  
P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
P305 + P351 + P338 + P310 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.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.  
P331 Do NOT induce vomiting.  
P361 + P364 Take off immediately all contaminated clothing

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| Version<br>1.1 | Revision Date:<br>07/14/2026 | SDS Number:<br>S00041429090 | Date of last issue: -<br>Date of first issue: 01/19/2017 |
|----------------|------------------------------|-----------------------------|----------------------------------------------------------|

and wash it before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

### Disposal:

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

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

| Chemical name                                                                                  | CAS No./Unique ID | Concentration (% w/w) | Trade secret |
|------------------------------------------------------------------------------------------------|-------------------|-----------------------|--------------|
| hydrocarbons, C10, aromatics, < 1% naphthalene                                                 | -                 | >= 45 - <= 70         | TSC          |
| tefluthrin (ISO)                                                                               | 79538-32-2*       | 24.1757               | -            |
| D-Glucopyranose, oligomeric, decyl octyl glycosides                                            | 68515-73-1*       | >= 5 - <= 10          | TSC          |
| octan-1-ol                                                                                     | 111-87-5*         | >= 3 - <= 7           | TSC          |
| poly(oxy-1,2-ethanediyl), alpha-phosphono-omega-[2,4,6-tris(1-phenylethyl)phenoxy]-naphthalene | 114535-82-9*      | >= 3 - <= 7           | TSC          |
|                                                                                                | 91-20-3*          | >= 0.1 - <= 1         | TSC          |

\* Indicates that the identifier is a CAS No.

TSC- the actual concentration or concentration range is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

|                         |                                                                                                                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice          | : Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.                                        |
| If inhaled              | : Take the victim into fresh air.<br>If breathing is irregular or stopped, administer artificial respiration.<br>Keep patient warm and at rest.<br>Call a physician or poison control center immediately. |
| In case of skin contact | : Take off all contaminated clothing immediately.<br>Wash off immediately with plenty of water.<br>If skin irritation persists, call a physician.<br>Wash contaminated clothing before re-use.            |

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|                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| In case of eye contact                                      | : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.<br>Remove contact lenses.<br>Immediate medical attention is required.                                                                                                                                                                                                                                                                                |
| If swallowed                                                | : If swallowed, seek medical advice immediately and show this container or label.<br>Do NOT induce vomiting.                                                                                                                                                                                                                                                                                                                                    |
| Most important symptoms and effects, both acute and delayed | : Aspiration may cause pulmonary edema and pneumonitis.<br>Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours.<br><br>Toxic if swallowed or in contact with skin.<br>May be fatal if swallowed and enters airways.<br>Causes serious eye damage.<br>Fatal if inhaled.<br>May cause drowsiness or dizziness.<br>Suspected of causing cancer.<br>Corrosive to the respiratory tract. |
| Notes to physician                                          | : Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.<br>Treat symptomatically.                                                                                                                                                                                                                                                                                                                                    |

## SECTION 5. FIRE-FIGHTING MEASURES

|                                                |                                                                                                                                                                                                                                                                                  |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                   | : Extinguishing media - small fires<br>Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.<br>Extinguishing media - large fires<br>Alcohol-resistant foam                                                                                                   |
| Unsuitable extinguishing media                 | : Do not use a solid water stream as it may scatter and spread fire.                                                                                                                                                                                                             |
| Specific hazards during fire fighting          | : As the product contains combustible organic ingredients, fire will produce dense black smoke containing hazardous products of combustion (see section 10).<br>Exposure to decomposition products may be a hazard to health.<br>Flash back possible over considerable distance. |
| Hazardous combustion products                  | : Carbon oxides<br>Nitrogen oxides (NOx)<br>Chlorine compounds<br>Fluorine compounds<br>Oxides of phosphorus                                                                                                                                                                     |
| Further information                            | : Do not allow run-off from fire fighting to enter drains or water courses.<br>Cool closed containers exposed to fire with water spray.                                                                                                                                          |
| Special protective equipment for fire-fighters | : Wear full protective clothing and self-contained breathing apparatus.                                                                                                                                                                                                          |

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.  
Keep people away from and upwind of spill/leak.  
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.  
Remove all sources of ignition.  
Pay attention to flashback.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : 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).  
Clean contaminated surface thoroughly.  
Clean with detergents. Avoid solvents.  
Retain and dispose of contaminated wash water.

### SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Avoid contact with skin and eyes.  
When using do not eat, drink or smoke.  
Use only in an area containing flame proof equipment.  
Take precautionary measures against static discharges.  
For personal protection see section 8.
- Conditions for safe storage : Keep containers tightly closed in a dry, cool and well-ventilated place.  
Keep out of the reach of children.  
Keep away from combustible material.  
Keep in an area equipped with sprinklers.  
Keep away from food, drink and animal feedingstuffs.  
No smoking.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

| Components       | CAS-No.    | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis     |
|------------------|------------|----------------------------------|------------------------------------------------|-----------|
| tefluthrin (ISO) | 79538-32-2 | TWA                              | 0.04 mg/m <sup>3</sup><br>(Skin)               | Syngenta  |
| octan-1-ol       | 111-87-5   | TWA                              | 50 ppm                                         | US WEEL   |
| naphthalene      | 91-20-3    | TWA                              | 10 ppm                                         | ACGIH     |
|                  |            | TWA                              | 10 ppm<br>50 mg/m <sup>3</sup>                 | NIOSH REL |
|                  |            | ST                               | 15 ppm<br>75 mg/m <sup>3</sup>                 | NIOSH REL |

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## FORCE EVO

Version 1.1      Revision Date: 07/14/2026      SDS Number: S00041429090      Date of last issue: -  
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|  |  |      |                                |          |
|--|--|------|--------------------------------|----------|
|  |  | TWA  | 10 ppm<br>50 mg/m <sup>3</sup> | OSHA Z-1 |
|  |  | TWA  | 10 ppm<br>50 mg/m <sup>3</sup> | OSHA P0  |
|  |  | STEL | 15 ppm<br>75 mg/m <sup>3</sup> | OSHA P0  |

**Engineering measures** : THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards.

Where necessary, seek additional occupational hygiene advice.

### Personal protective equipment

**Respiratory protection** : Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

**Hand protection**

**Remarks** : Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things from the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

**Eye protection** : Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.

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|                          |                                                                                                                                                                                                                                                                             |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin and body protection | : Tightly fitting safety goggles<br>Face-shield<br>Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.<br>Remove and wash contaminated clothing before re-use.<br>Wear as appropriate: |
| Protective measures      | : Impervious clothing<br>The use of technical measures should always have priority over the use of personal protective equipment.<br>When selecting personal protective equipment, seek appropriate professional advice.                                                    |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                                  |                                                       |
|--------------------------------------------------|-------------------------------------------------------|
| Appearance                                       | : liquid                                              |
| Color                                            | : amber                                               |
| Odor                                             | : No data available                                   |
| Odor Threshold                                   | : No data available                                   |
| pH                                               | : 3.7<br>Concentration: 1 %w/v                        |
| Melting point/freezing point                     | : No data available                                   |
| Initial boiling point and boiling range          | : No data available                                   |
| Flash point                                      | : 163 °F / 73 °C<br>Method: Pensky-Martens closed cup |
| Evaporation rate                                 | : No data available                                   |
| Flammability (solid, gas)                        | : 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 vapor density                           | : No data available                                   |
| Density                                          | : 1.034 g/cm <sup>3</sup> (77 °F / 25 °C)             |
| Solubility(ies)                                  |                                                       |

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|                                        |   |                                                          |
|----------------------------------------|---|----------------------------------------------------------|
| Water solubility                       | : | No data available                                        |
| Solubility in other solvents           | : | No data available                                        |
| Partition coefficient: n-octanol/water | : | No data available                                        |
| Autoignition temperature               | : | 779 °F / 415 °C                                          |
| Decomposition temperature              | : | No data available                                        |
| Viscosity                              | : |                                                          |
| Viscosity, kinematic                   | : | No data available                                        |
| Explosive properties                   | : | Not explosive                                            |
| Oxidizing properties                   | : | The substance or mixture is not classified as oxidizing. |
| Particle characteristics               | : |                                                          |
| Particle size                          | : | No data available                                        |

## SECTION 10. STABILITY AND REACTIVITY

|                                    |   |                                                             |
|------------------------------------|---|-------------------------------------------------------------|
| Reactivity                         | : | None reasonably foreseeable.                                |
| Chemical stability                 | : | Stable under normal conditions.                             |
| Possibility of hazardous reactions | : | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid                | : | No decomposition if used as directed.                       |
| Incompatible materials             | : | None known.                                                 |
| Hazardous decomposition products   | : | No hazardous decomposition products are known.              |

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

Ingestion  
Inhalation  
Skin contact  
Eye contact

### Acute toxicity

Toxic if swallowed or in contact with skin.  
Fatal if inhaled.

### Product:

|                           |   |                                                                                                                                                     |
|---------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : | Acute toxicity estimate: 90.17 mg/kg<br>Method: Calculation method                                                                                  |
| Acute inhalation toxicity | : | Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.<br><br>Acute toxicity estimate: 0.1766 mg/l |

# SAFETY DATA SHEET

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|         |                |              |                                 |
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| 1.1     | 07/14/2026     | S00041429090 | Date of first issue: 01/19/2017 |

Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: 732.14 mg/kg  
Method: Calculation method

### Components:

#### **tefluthrin (ISO):**

Acute oral toxicity : LD50 (Rat, male): 21.8 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): 0.0427 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, female): 177 mg/kg

#### **octan-1-ol:**

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

Acute inhalation toxicity : LC50 (Rat): > 5.6 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

#### **poly(oxy-1,2-ethanediyl), alpha-phosphono-omega-[2,4,6-tris(1-phenylethyl)phenoxy]-:**

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: Based on data from similar materials

#### **naphthalene:**

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

#### **Skin corrosion/irritation**

Not classified due to lack of data.

### Components:

#### **hydrocarbons, C10, aromatics, < 1% naphthalene:**

Result : Repeated exposure may cause skin dryness or cracking.

#### **tefluthrin (ISO):**

# SAFETY DATA SHEET

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## FORCE EVO

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
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| 1.1     | 07/14/2026     | S00041429090 | Date of first issue: 01/19/2017 |

Species : Rabbit  
Result : No skin irritation

### octan-1-ol:

Species : Rabbit  
Result : No skin irritation

### poly(oxy-1,2-ethanediyl), alpha-phosphono-omega-[2,4,6-tris(1-phenylethyl)phenoxy]-:

Species : Rabbit  
Result : No skin irritation  
Remarks : Based on data from similar materials

### Serious eye damage/eye irritation

Causes serious eye damage.

#### Product:

Species : Chicken eye  
Result : Risk of serious damage to eyes.

#### Components:

### tefluthrin (ISO):

Species : Rabbit  
Result : No eye irritation

### D-Glucopyranose, oligomeric, decyl octyl glycosides:

Species : Rabbit  
Result : Irreversible effects on the eye

### octan-1-ol:

Species : Rabbit  
Result : Irritation to eyes, reversing within 21 days

### poly(oxy-1,2-ethanediyl), alpha-phosphono-omega-[2,4,6-tris(1-phenylethyl)phenoxy]-:

Species : Rabbit  
Result : Eye irritation  
Remarks : Based on data from similar materials

### Respiratory or skin sensitization

#### Skin sensitization

Not classified due to lack of data.

#### Respiratory sensitization

Not classified due to lack of data.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## FORCE EVO

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.1     | 07/14/2026     | S00041429090 | Date of first issue: 01/19/2017 |

### Components:

#### **tefluthrin (ISO):**

|         |   |                                    |
|---------|---|------------------------------------|
| Species | : | Guinea pig                         |
| Result  | : | Does not cause skin sensitization. |

#### **octan-1-ol:**

|         |   |                                    |
|---------|---|------------------------------------|
| Species | : | Guinea pig                         |
| Result  | : | Does not cause skin sensitization. |

### **Germ cell mutagenicity**

Not classified due to lack of data.

### Components:

#### **tefluthrin (ISO):**

|                                     |   |                                                    |
|-------------------------------------|---|----------------------------------------------------|
| Germ cell mutagenicity - Assessment | : | Animal testing did not show any mutagenic effects. |
|-------------------------------------|---|----------------------------------------------------|

#### **octan-1-ol:**

|                                     |   |                                                    |
|-------------------------------------|---|----------------------------------------------------|
| Germ cell mutagenicity - Assessment | : | Animal testing did not show any mutagenic effects. |
|-------------------------------------|---|----------------------------------------------------|

### **Carcinogenicity**

Suspected of causing cancer.

### Components:

#### **tefluthrin (ISO):**

|                              |   |                                                   |
|------------------------------|---|---------------------------------------------------|
| Carcinogenicity - Assessment | : | No evidence of carcinogenicity in animal studies. |
|------------------------------|---|---------------------------------------------------|

#### **octan-1-ol:**

|                              |   |                                                   |
|------------------------------|---|---------------------------------------------------|
| Carcinogenicity - Assessment | : | No evidence of carcinogenicity in animal studies. |
|------------------------------|---|---------------------------------------------------|

#### **naphthalene:**

|                              |   |                                                       |
|------------------------------|---|-------------------------------------------------------|
| Carcinogenicity - Assessment | : | Limited evidence of carcinogenicity in animal studies |
|------------------------------|---|-------------------------------------------------------|

|             |                                                          |         |
|-------------|----------------------------------------------------------|---------|
| <b>IARC</b> | Group 2B: Possibly carcinogenic to humans<br>naphthalene | 91-20-3 |
|-------------|----------------------------------------------------------|---------|

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

|            |                                                                |         |
|------------|----------------------------------------------------------------|---------|
| <b>NTP</b> | Reasonably anticipated to be a human carcinogen<br>naphthalene | 91-20-3 |
|------------|----------------------------------------------------------------|---------|

### **Reproductive toxicity**

Not classified due to lack of data.

### Components:

#### **tefluthrin (ISO):**

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## FORCE EVO

|                |                              |                             |                                                          |
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| Version<br>1.1 | Revision Date:<br>07/14/2026 | SDS Number:<br>S00041429090 | Date of last issue: -<br>Date of first issue: 01/19/2017 |
|----------------|------------------------------|-----------------------------|----------------------------------------------------------|

Reproductive toxicity - Assessment : No toxicity to reproduction  
No effects on or via lactation

### octan-1-ol:

Reproductive toxicity - Assessment : No toxicity to reproduction, No effects on or via lactation

### STOT-single exposure

May cause drowsiness or dizziness.  
Corrosive to the respiratory tract.

### Components:

#### hydrocarbons, C10, aromatics, < 1% naphthalene:

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

#### tefluthrin (ISO):

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### octan-1-ol:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT-repeated exposure

Not classified due to lack of data.

### Components:

#### tefluthrin (ISO):

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

#### octan-1-ol:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Aspiration toxicity

May be fatal if swallowed and enters airways.

### Components:

#### hydrocarbons, C10, aromatics, < 1% naphthalene:

May be fatal if swallowed and enters airways.

#### tefluthrin (ISO):

No aspiration toxicity classification

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



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|         |                |              |                                 |
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| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
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### Further information

#### Product:

Remarks : May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

#### Components:

##### **tefluthrin (ISO):**

Remarks : May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **hydrocarbons, C10, aromatics, < 1% naphthalene:**

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l  
Exposure time: 96 h  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 3 - 10 mg/l  
Exposure time: 48 h  
Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae/aquatic plants : EL50 (Raphidocelis subcapitata (freshwater green alga)): > 1 - < 3 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Remarks: Information given is based on data obtained from similar substances.

##### **tefluthrin (ISO):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.00006 mg/l  
Exposure time: 96 h  
  
LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.00013 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Americamysis): 0.000053 mg/l  
Exposure time: 96 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 1.05 mg/l  
Exposure time: 96 h  
Remarks: Highest attainable concentration

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## FORCE EVO

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.1     | 07/14/2026     | S00041429090 | Date of first issue: 01/19/2017 |

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 0.0000096 mg/l  
Exposure time: 28 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC10 (Daphnia magna (Water flea)): 0.000009 mg/l  
Exposure time: 21 d  
NOEC (Americamysis): 0.000002 mg/l  
Exposure time: 28 d

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l  
Exposure time: 3 h

### D-Glucopyranose, oligomeric, decyl octyl glycosides:

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 560 mg/l

### octan-1-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 13.3 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 20 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 14 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 1 mg/l  
Exposure time: 21 d

### naphthalene:

#### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

#### Persistence and degradability

##### Components:

##### tefluthrin (ISO):

Stability in water : Degradation half life: 60 - 203 d  
Remarks: The substance is stable in water.

##### octan-1-ol:

Biodegradability : Result: Readily biodegradable.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## FORCE EVO

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.1     | 07/14/2026     | S00041429090 | Date of first issue: 01/19/2017 |

### Bioaccumulative potential

#### Components:

##### **tefluthrin (ISO):**

Bioaccumulation : Remarks: Bioaccumulates

### Mobility in soil

#### Components:

##### **tefluthrin (ISO):**

Distribution among environmental compartments : Remarks: immobile  
Stability in soil : Dissipation time: 48 - 151 d  
Percentage dissipation: 50 % (DT50)  
Remarks: Product is not persistent.

### Other adverse effects

#### Components:

##### **tefluthrin (ISO):**

Results of PBT and vPvB assessment : Not persistent, bioaccumulative, and toxic (PBT).  
Endocrine disrupting potential : Does not have endocrine disrupting properties.

##### **octan-1-ol:**

Results of PBT and vPvB assessment : Not persistent, bioaccumulative, and toxic (PBT).

##### **naphthalene:**

Results of PBT and vPvB assessment : Not persistent, bioaccumulative, and toxic (PBT).

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Where possible recycling is preferred to disposal or incineration.  
If recycling is not practicable, dispose of in compliance with local regulations.  
This product will not be classified as a RCRA characteristic hazardous waste when discarded.

Contaminated packaging : Empty remaining contents.  
Triple rinse containers.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## FORCE EVO

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.1     | 07/14/2026     | S00041429090 | Date of first issue: 01/19/2017 |

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

UN number : UN 3352  
Proper shipping name : PYRETHROID PESTICIDE, LIQUID, TOXIC (TEFLUTHRIN)  
Class : 6.1  
Packing group : III  
Labels : 6.1  
Environmentally hazardous : no

##### IATA-DGR

UN/ID No. : UN 3352  
Proper shipping name : Pyrethroid pesticide, liquid, toxic (TEFLUTHRIN)  
Class : 6.1  
Packing group : III  
Labels : Toxic  
Packing instruction (cargo aircraft) : 663  
Packing instruction (passenger aircraft) : 655

##### IMDG-Code

UN number : UN 3352  
Proper shipping name : PYRETHROID PESTICIDE, LIQUID, TOXIC (TEFLUTHRIN)  
Class : 6.1  
Packing group : III  
Labels : 6.1  
EmS Code : F-A, S-A  
Marine pollutant : yes

#### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

#### Domestic regulation

##### 49 CFR

UN/ID/NA number : UN 3352  
Proper shipping name : Pyrethroid pesticide, liquid toxic (TEFLUTHRIN)  
Class : 6.1  
Packing group : III  
Labels : POISON  
ERG Code : 151  
Marine pollutant : no

#### 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.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## FORCE EVO

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.1     | 07/14/2026     | S00041429090 | Date of first issue: 01/19/2017 |

### SECTION 15. REGULATORY INFORMATION

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:

Danger

Contains petroleum distillate.

May be fatal if absorbed through skin.

Fatal if inhaled.

Fatal if swallowed.

Corrosive

Causes skin burns.

Causes irreversible eye damage.

Do not get in eyes, on skin, or on clothing.

Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

Wear long-sleeved shirt and long pants, socks and shoes and chemical resistant gloves made of any waterproof material such as polyvinyl chloride, nitrile rubber or butyl rubber.

Remove and wash contaminated clothing before re-use.

Avoid breathing spray mist.

Wear protective eyewear, goggles, or face shields.

#### CERCLA Reportable Quantity

| Components  | CAS-No. | Component RQ<br>(lbs) | Calculated product RQ<br>(lbs) |
|-------------|---------|-----------------------|--------------------------------|
| naphthalene | 91-20-3 | 100                   | 21482                          |

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

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

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

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

**SARA 311/312 Hazards** : Flammable (gases, aerosols, liquids, or solids)  
Acute toxicity (any route of exposure)  
Carcinogenicity  
Aspiration hazard  
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:

|             |         |                |
|-------------|---------|----------------|
| naphthalene | 91-20-3 | >= 0.1 - < 1 % |
|-------------|---------|----------------|

#### California Prop. 65

WARNING: This product can expose you to chemicals including naphthalene, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



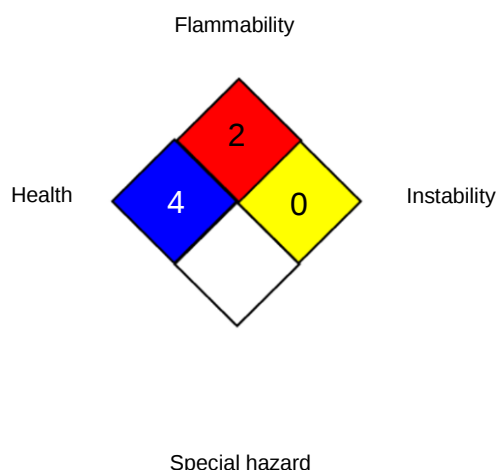
## FORCE EVO

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.1     | 07/14/2026     | S00041429090 | Date of first issue: 01/19/2017 |

### 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)                                                   |
| NIOSH REL       | : USA. NIOSH Recommended Exposure Limits                                                    |
| OSHA P0         | : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)                        |
| OSHA Z-1        | : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants          |
| Syngenta        | : Syngenta Occupational Exposure Limits                                                     |
| US WEEL         | : USA. Workplace Environmental Exposure Levels (WEEL)                                       |
| ACGIH / TWA     | : 8-hour, time-weighted average                                                             |
| NIOSH REL / TWA | : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| NIOSH REL / ST  | : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday    |
| OSHA P0 / TWA   | : 8-hour time weighted average                                                              |
| OSHA P0 / STEL  | : Short-term exposure limit                                                                 |
| OSHA Z-1 / TWA  | : 8-hour time weighted average                                                              |
| Syngenta / TWA  | : Time weighted average                                                                     |
| US WEEL / TWA   | : 8-hr TWA                                                                                  |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## FORCE EVO

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: -           |
| 1.1     | 07/14/2026     | S00041429090 | Date of first issue: 01/19/2017 |

System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic 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, Authorization and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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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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