

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

### SECTION 1. IDENTIFICATION

#### Product identifier

**Product name** PIRESTAR 380 EC

#### Other means of identification

**Product code** 50000489

**Chemical nature** Insecticide

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

**Recommended use** Can be used as insecticide only.

**Restrictions on use** Use as recommended by the label.

#### Manufacturer or supplier's details

##### Manufacturer

FMC Corporation  
2929 WALNUT ST  
PHILADELPHIA PA 19104  
USA  
(215) 299-6000  
SDS-Info@fmc.com

##### Supplier Address

FMC Corporation  
2929 Walnut Street  
Philadelphia PA 19104  
USA

#### Emergency telephone

For leak, fire, spill or accident emergencies, call:  
1 800 / 424-9300 (CHEMTREC - U.S.A.)  
1 703 / 741-5970 (CHEMTREC - International)  
1 703 / 527-3887 (CHEMTREC - Alternate)

Medical emergency:  
U.S.A. & Canada: +1 800 / 331-3148  
All other countries: +1 651 / 632-6793 (Collect)

### SECTION 2. HAZARDS IDENTIFICATION

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

Flammable liquids : Category 4

Acute toxicity (Oral) : Category 4

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

Acute toxicity (Inhalation)	:	Category 4
Carcinogenicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 2 (Central nervous system)
Specific target organ toxicity - single exposure	:	Category 3 (Respiratory system, Central nervous system)
Specific target organ toxicity - repeated exposure	:	Category 2 (Central nervous system)
Aspiration hazard	:	Category 1

### GHS label elements

Hazard pictograms	:	 
Signal Word	:	DANGER
Hazard Statements	:	H227 Combustible liquid. H302 + H332 Harmful if swallowed or if inhaled. H304 May be fatal if swallowed and enters airways. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H371 May cause damage to organs (Central nervous system). H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure.
Precautionary Statements	:	<b>Prevention:</b> P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P210 Keep away from heat/ sparks/ open flames/ hot surfaces. 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. <b>Response:</b> P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P304 + P340 + P312 IF INHALED: Remove person to fresh air

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P331 Do NOT induce vomiting.

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.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

### Disposal:

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

### Other hazards

Very toxic to aquatic life with long lasting effects.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Insecticide

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	64742-95-6	>= 50 - < 70
permethrin (ISO)	52645-53-1	38.4
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	64742-95-6	>= 50 - < 70
permethrin (ISO)	52645-53-1	>= 30 - < 50

Actual concentration is withheld as a trade secret

## SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.  
Show this material safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

- If inhaled : Consult a physician after significant exposure.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Wash off with soap and water.  
If symptoms persist, call a physician.  
Wash contaminated clothing before re-use.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : Swallowing or inhaling may result in sudden shortness of breath, coughing, nausea and or abdominal pain.  
Skin contact may result in itching and redness. Eye contact may result in itching, watery eyes, light sensitivity, pain, and/or blurred vision.  
Harmful if swallowed or if inhaled.  
May be fatal if swallowed and enters airways.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
Suspected of causing cancer.  
May cause damage to organs.  
May cause damage to organs through prolonged or repeated exposure.
- Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.
- Notes to physician : Treat symptomatically.

---

## SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet  
Do not spread spilled material with high-pressure water streams.
- Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

- Hazardous combustion products : Fire may produce irritating, corrosive and/or toxic gases.  
Carbon oxides  
Halogenated compounds
- Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.  
Use a water spray to cool fully closed containers.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
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 : Firefighters should wear protective clothing and self-contained breathing apparatus.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Use personal protective equipment.  
If it can be safely done, stop the leak.  
Do not touch or walk through the spilled material.  
Ensure adequate ventilation.  
Never return spills in original containers for re-use.  
Mark the contaminated area with signs and prevent access to unauthorized personnel.  
Only qualified personnel equipped with suitable protective equipment may intervene.  
For disposal considerations see section 13.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Never return spills in original containers for re-use.  
Collect as much of the spill as possible with a suitable absorbent material.  
Pick up and transfer to properly labeled containers.  
Keep in suitable, closed containers for disposal.

## SECTION 7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapors/dust.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.

- Conditions for safe storage : No smoking.  
Keep container tightly closed in a dry and well-ventilated place.  
Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : Do not store near acids.
- Further information on storage stability : No decomposition if stored and applied as directed.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified	64742-95-6	TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	ACGIH
		TWA	400 ppm 1,600 mg/m <sup>3</sup>	OSHA P0

### Personal protective equipment

- Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
- Hand protection Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles
- Skin and body protection : Impervious clothing  
Choose body protection according to the amount and con-

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

centration of the dangerous substance at the work place.

- Protective measures : Plan first aid action before beginning work with this product.
- Hygiene measures : Avoid contact with skin, eyes and clothing.  
Do not inhale aerosol.  
When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: liquid
Form	: liquid
Color	: amber
Odor	: hydrocarbon-like
Odor Threshold	: No data available
pH	: 4.8 (77 °F / 25 °C)
Melting point/ range	: No data available
Boiling point/boiling range	: No data available
Flash point	: 174.9 - 180 °F / 79.4 - 82 °C Method: closed cup
Evaporation rate	: No data available
Flammability (liquids)	: Sustains combustion
Self-ignition	: 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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

Relative vapor density	:	No data available
Relative density	:	8.89
Density	:	No data available
Solubility(ies)		
Water solubility	:	emulsifiable
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	Non-oxidizing
Molecular weight	:	Not applicable

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reactions	:	Vapors may form explosive mixture with air. No decomposition if stored and applied as directed.
Conditions to avoid	:	Heat, flames and sparks. Avoid extreme temperatures. Avoid formation of aerosol.
Incompatible materials	:	Avoid strong acids, bases, and oxidizers.
Hazardous decomposition products	:	No hazardous decomposition products are known.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Harmful if swallowed or if inhaled.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version  
1.0

Revision Date:  
01/09/2025

SDS Number:  
50000489

Date of last issue: 01/09/2025  
Date of first issue: 01/09/2025

### Product:

- Acute oral toxicity : LD50 (Rat): 789 mg/kg  
LD50 (Rat): 300 - 2,000 mg/kg  
Method: OECD Test Guideline 423  
GLP: yes  
Assessment: The component/mixture is moderately toxic after single ingestion.
- Acute inhalation toxicity : LC50 (Rat): 1.4 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
  
LC50 (Rat, male and female): 3.25 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Symptoms: Tremors, Convulsions, Fatality  
GLP: yes
- Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: no mortality  
  
Assessment: The component/mixture is moderately toxic after single contact with skin.  
Remarks: Resolution no. 2075

### Components:

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

- Acute oral toxicity : LD50 (Rat, female): 3,492 mg/kg  
Method: OECD Test Guideline 401  
  
LD50 (Rat, male): 6,984 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat, male and female): > 6.193 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: no mortality
- Acute dermal toxicity : LD50 (Rabbit, male and female): > 3,160 mg/kg  
Assessment: The component/mixture is minimally toxic after single contact with skin.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

### permethrin (ISO):

- Acute oral toxicity : LD50 (Rat, female): 3,129 mg/kg  
Method: OECD Test Guideline 425
- LD50 (Rat, female): > 2,000 mg/kg  
Method: OECD Test Guideline 423  
GLP: yes
- Acute inhalation toxicity : LC50 (Rat, male and female): > 2.09 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403
- Acute dermal toxicity : LD50 (Rabbit, male and female): > 4,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: no mortality

### Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

- Acute oral toxicity : LD50 (Rat, female): 3,492 mg/kg  
Method: OECD Test Guideline 401
- LD50 (Rat, male): 6,984 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat, male and female): > 6.193 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: no mortality
- Acute dermal toxicity : LD50 (Rabbit, male and female): > 3,160 mg/kg  
Assessment: The component/mixture is minimally toxic after single contact with skin.

### permethrin (ISO):

- Acute oral toxicity : LD50 (Rat, female): 3,129 mg/kg  
Method: OECD Test Guideline 425
- LD50 (Rat, female): > 2,000 mg/kg  
Method: OECD Test Guideline 423  
GLP: yes
- Acute inhalation toxicity : LC50 (Rat, male and female): > 2.09 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

Acute dermal toxicity : LD50 (Rabbit, male and female): > 4,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: no mortality

### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

#### Product:

Species : Rabbit  
Assessment : Not classified as irritant  
Result : slight irritation

#### Components:

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Mild skin irritation

#### **permethrin (ISO):**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : slight irritation  
GLP : yes

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Mild skin irritation

#### **permethrin (ISO):**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : slight irritation  
GLP : yes

### **Serious eye damage/eye irritation**

Based on available data, the classification criteria are not met.

#### Components:

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Species : Rabbit  
Result : No eye irritation

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

### permethrin (ISO):

Species	:	Rabbit
Result	:	slight irritation
Method	:	OECD Test Guideline 405
Species	:	Rabbit
Result	:	slight irritation
Method	:	OECD Test Guideline 405
GLP	:	yes

### Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Species	:	Rabbit
Result	:	No eye irritation

### permethrin (ISO):

Species	:	Rabbit
Result	:	slight irritation
Method	:	OECD Test Guideline 405
Species	:	Rabbit
Result	:	slight irritation
Method	:	OECD Test Guideline 405
GLP	:	yes

### Respiratory or skin sensitization

#### Skin sensitization

Based on available data, the classification criteria are not met.

#### Respiratory sensitization

Based on available data, the classification criteria are not met.

#### Product:

Test Type	:	Buehler Test
Routes of exposure	:	Dermal
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Not a skin sensitizer.
GLP	:	yes

#### Components:

### Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Test Type	:	Maximization Test
Routes of exposure	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Not a skin sensitizer.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

### permethrin (ISO):

Test Type : Buehler Test  
Routes of exposure : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.

### Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Test Type : Maximization Test  
Routes of exposure : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.

### permethrin (ISO):

Test Type : Buehler Test  
Routes of exposure : Skin contact  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Not a skin sensitizer.

### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

### Product:

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Result: negative

### Components:

### Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Genotoxicity in vitro : Test Type: in vitro DNA damage and/or repair study  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: reverse mutation assay  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: Bone marrow chromosome aberration.  
Species: Rat (male and female)  
Application Route: Inhalation  
Result: negative

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

### **permethrin (ISO):**

Genotoxicity in vitro

- : Test Type: Ames test  
Result: negative

Test Type: Mouse lymphoma assay  
Result: negative

Genotoxicity in vivo

- : Test Type: dominant lethal test  
Species: Mouse (male)  
Result: negative

Test Type: Sex-linked Recessive Lethal Test  
Species: Drosophila melanogaster (vinegar fly)  
Result: negative

### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Genotoxicity in vitro

- : Test Type: in vitro DNA damage and/or repair study  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Result: negative

Test Type: reverse mutation assay  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo

- : Test Type: Bone marrow chromosome aberration.  
Species: Rat (male and female)  
Application Route: Inhalation  
Result: negative

### **permethrin (ISO):**

Genotoxicity in vitro

- : Test Type: Ames test  
Result: negative

Test Type: Mouse lymphoma assay  
Result: negative

Genotoxicity in vivo

- : Test Type: dominant lethal test  
Species: Mouse (male)  
Result: negative

Test Type: Sex-linked Recessive Lethal Test  
Species: Drosophila melanogaster (vinegar fly)  
Result: negative

### **Carcinogenicity**

Suspected of causing cancer.

### **Product:**

Carcinogenicity - Assess- : Limited evidence of carcinogenicity in animal studies

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

ment

### **Components:**

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

#### **permethrin (ISO):**

Species : Rat  
Application Route : Oral  
Exposure time : 2 Years  
Result : negative

Species : Mouse  
Application Route : Oral  
Exposure time : 2 Years  
Result : negative

Remarks : Likely to be carcinogenic to humans (US EPA)

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

#### **permethrin (ISO):**

Species : Rat  
Application Route : Oral  
Exposure time : 2 Years  
Result : negative

Species : Mouse  
Application Route : Oral  
Exposure time : 2 Years  
Result : negative

Remarks : Likely to be carcinogenic to humans (US EPA)

**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**

Based on available data, the classification criteria are not met.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

### Components:

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

- Effects on fertility : Test Type: Three-generation study  
Species: Rat  
Application Route: inhalation (vapor)  
Fertility: NOAEC Mating/Fertility: 7.5 mg/l  
Result: negative  
Remarks: Based on data from similar materials
- Effects on fetal development : Species: Mouse  
Application Route: inhalation (vapor)  
General Toxicity Maternal: LOAEC: 500 part per million  
Symptoms: Maternal effects.

#### **permethrin (ISO):**

- Effects on fertility : Test Type: Three-generation study  
Species: Rat, male and female  
Application Route: Oral  
Result: negative
- Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rabbit  
Application Route: Oral  
Symptoms: No maternal effects.  
Result: negative

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

- Effects on fertility : Test Type: Three-generation study  
Species: Rat  
Application Route: inhalation (vapor)  
Fertility: NOAEC Mating/Fertility: 7.5 mg/l  
Result: negative  
Remarks: Based on data from similar materials
- Effects on fetal development : Species: Mouse  
Application Route: inhalation (vapor)  
General Toxicity Maternal: LOAEC: 500 part per million  
Symptoms: Maternal effects.

#### **permethrin (ISO):**

- Effects on fertility : Test Type: Three-generation study  
Species: Rat, male and female  
Application Route: Oral  
Result: negative
- Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rabbit  
Application Route: Oral  
Symptoms: No maternal effects.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

Result: negative

### STOT-single exposure

May cause respiratory irritation.  
May cause drowsiness or dizziness.  
May cause damage to organs (Central nervous system).

#### Product:

Target Organs : Central nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 2.

#### Components:

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

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

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

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

### STOT-repeated exposure

May cause damage to organs (Central nervous system) through prolonged or repeated exposure.

#### Product:

Target Organs : Central nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

#### Components:

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

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

### permethrin (ISO):

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

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

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

### permethrin (ISO):

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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

### Repeated dose toxicity

#### Components:

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Species : Rat, male and female  
NOAEC : 0.8 - 0.9 mg/l  
Application Route : Inhalation  
Test atmosphere : vapor  
Remarks : Based on data from similar materials

Species : Rat, male  
NOAEL : 600 mg/kg  
Application Route : Oral  
Remarks : Based on data from similar materials

#### **permethrin (ISO):**

Species : Rat  
NOAEL : 20 mg/kg  
Application Route : Oral - feed  
Exposure time : 90 days  
Symptoms : Liver effects

Species : Dog, male and female  
NOEL : 10 mg/kg bw/day  
Application Route : Oral  
Exposure time : 90 d  
Dose : 5, 50, 500 mg/kg bw/day  
Target Organs : Liver  
Symptoms : Tremors

Species : Rat  
NOEL : 250 ppm  
Application Route : Oral  
Exposure time : 13 w  
Dose : 0, 250, 1500, 2500 ppm  
Symptoms : Tremors

Species : Rat  
NOEL : 150 mg/kg bw/day  
Application Route : Oral  
Exposure time : 14 d  
Dose : 0, 10, 150, 300 mg/kg bw/day  
Symptoms : Tremors

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Species : Rat, male and female  
NOAEC : 0.8 - 0.9 mg/l  
Application Route : Inhalation  
Test atmosphere : vapor

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

Remarks	: Based on data from similar materials
Species	: Rat, male
NOAEL	: 600 mg/kg
Application Route	: Oral
Remarks	: Based on data from similar materials

### **permethrin (ISO):**

Species	: Rat
NOAEL	: 20 mg/kg
Application Route	: Oral - feed
Exposure time	: 90 days
Symptoms	: Liver effects
Species	: Dog, male and female
NOEL	: 10 mg/kg bw/day
Application Route	: Oral
Exposure time	: 90 d
Dose	: 5, 50, 500 mg/kg bw/day
Target Organs	: Liver
Symptoms	: Tremors
Species	: Rat
NOEL	: 250 ppm
Application Route	: Oral
Exposure time	: 13 w
Dose	: 0, 250, 1500, 2500 ppm
Symptoms	: Tremors
Species	: Rat
NOEL	: 150 mg/kg bw/day
Application Route	: Oral
Exposure time	: 14 d
Dose	: 0, 10, 150, 300 mg/kg bw/day
Symptoms	: Tremors

### **Aspiration toxicity**

May be fatal if swallowed and enters airways.

### **Components:**

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

May be fatal if swallowed and enters airways.

### **permethrin (ISO):**

No data available

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

May be fatal if swallowed and enters airways.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

### **permethrin (ISO):**

No data available

### **Neurological effects**

#### **Components:**

### **permethrin (ISO):**

Neurotoxicity observed in animals studies

### **permethrin (ISO):**

Neurotoxicity observed in animals studies

### **Further information**

#### **Product:**

Remarks	: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Concentrations substantially above the TLV value may cause narcotic effects. Solvents may degrease the skin.
---------	---

---

## SECTION 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

#### **Product:**

Toxicity to fish	: LC50 (Brachydanio rerio (zebrafish)): 33.62 µg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia similis (Water flea)): 2.99 µg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: EyC50 (Pseudokirchneriella subcapitata (algae)): 1.09 mg/l Exposure time: 72 h Method: OECD Test Guideline 201  EyC50 (Selenastrum capricornutum (green algae)): 0.0289 mg/l Exposure time: 96 h
Toxicity to soil dwelling organisms	: Method: OECD Test Guideline 217 Remarks: No significant adverse effect on Carbon mineralization.  Method: OECD Test Guideline 216 Remarks: No significant adverse effect on Nitrogen mineralization.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

NOEC (Eisenia fetida (earthworms)): 2,388 mg/kg  
Exposure time: 14 d

- Toxicity to terrestrial organisms : LD50 (Apis mellifera (bees)): 0.3 µg/bee  
End point: Acute contact toxicity  
  
LD50 (Coturnix japonica (Japanese quail)): > 2,000 mg/kg

### Components:

#### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

- Toxicity to fish : NOEC (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials  
  
LL50 (Pimephales promelas (fathead minnow)): 8.2 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 4.5 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials
- Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (microalgae)): 3.1 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials
- Toxicity to fish (Chronic toxicity) : NOELR (Pimephales promelas (fathead minnow)): 2.6 mg/l  
Exposure time: 14 d  
Method: OECD Test Guideline 204  
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 2.6 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211
- Toxicity to microorganisms : EC50 (Tetrahymena pyriformis): 15.41 mg/l  
Exposure time: 40 h  
Test Type: Growth inhibition  
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

### Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

#### permethrin (ISO):

Toxicity to fish : LC50 (Fish): 5.3 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Crustaceans): 0.001 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (algae): 0.0125 mg/l  
Exposure time: 72 h  
  
NOEC (algae): 0.9 µg/l  
Exposure time: 96 h

Toxicity to fish (Chronic toxicity) : NOEC (Fish): 0.3 µg/l  
Exposure time: 21 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Crustaceans): 0.039 µg/l  
Exposure time: 21 d

#### Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:

Toxicity to fish : NOEC (Oncorhynchus mykiss (rainbow trout)): 4.5 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

LL50 (Pimephales promelas (fathead minnow)): 8.2 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 4.5 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (microalgae)): 3.1 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOELR (Pimephales promelas (fathead minnow)): 2.6 mg/l  
Exposure time: 14 d

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

Method: OECD Test Guideline 204  
Remarks: Based on data from similar materials

- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 2.6 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211
- Toxicity to microorganisms : EC50 (Tetrahymena pyriformis): 15.41 mg/l  
Exposure time: 40 h  
Test Type: Growth inhibition  
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

### Ecotoxicology Assessment

- Acute aquatic toxicity : Toxic to aquatic life.
- Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

### permethrin (ISO):

- Toxicity to fish : LC50 (Fish): 5.3 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Crustaceans): 0.001 mg/l  
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 (algae): 0.0125 mg/l  
Exposure time: 72 h  
  
NOEC (algae): 0.9 µg/l  
Exposure time: 96 h
- Toxicity to fish (Chronic toxicity) : NOEC (Fish): 0.3 µg/l  
Exposure time: 21 d
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Crustaceans): 0.039 µg/l  
Exposure time: 21 d

### Persistence and degradability

#### Components:

##### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

- Biodegradability : Concentration: 49.2 mg/l  
Result: Inherently biodegradable.  
Biodegradation: 77.05 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

### **permethrin (ISO):**

Biodegradability : Result: Not readily biodegradable.

### **Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified:**

Biodegradability : Concentration: 49.2 mg/l  
Result: Inherently biodegradable.  
Biodegradation: 77.05 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

### **permethrin (ISO):**

Biodegradability : Result: Not readily biodegradable.

### **Bioaccumulative potential**

#### **Product:**

Bioaccumulation : Remarks: No data available

#### **Components:**

##### **permethrin (ISO):**

Bioaccumulation : Remarks: The product may be accumulated in organisms.

Partition coefficient: n-octanol/water : Pow: > 4.49  
Remarks: No data available

##### **permethrin (ISO):**

Bioaccumulation : Remarks: The product may be accumulated in organisms.

Partition coefficient: n-octanol/water : Pow: > 4.49  
Remarks: No data available

### **Mobility in soil**

#### **Components:**

##### **permethrin (ISO):**

Distribution among environmental compartments : Remarks: immobile

##### **permethrin (ISO):**

Distribution among environmental compartments : Remarks: immobile

### **Other adverse effects**

#### **Product:**

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

Ozone-Depletion Potential	: Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).
Additional ecological information	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

---

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Waste from residues	: The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
---------------------	--

---

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

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

#### IMDG-Code

UN number	: UN 3082
Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

	(Permethrin)	
Class	:	9
Packing group	:	III
Labels	:	9
EmS Code	:	F-A, S-F
Marine pollutant	:	yes

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

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR Road

UN/ID/NA number	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Permethrin)
Class	:	9
Packing group	:	III
Labels	:	CLASS 9
ERG Code	:	171
Marine pollutant	:	yes(Permethrin)

### Special precautions for user

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

## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
butan-1-ol	71-36-3	100	100 (F003)

### SARA 304 Extremely Hazardous Substances Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the 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** : No SARA Hazards

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

permethrin (ISO) 52645-53-1 >= 30 - < 50 %

### Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMi Intermediate or Final VOC's (40 CFR 60.489).

### Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

propylene oxide	75-56-9	>= 0 - < 0.1 %
-----------------	---------	----------------

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

propylene oxide	75-56-9	>= 0 - < 0.1 %
-----------------	---------	----------------

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

### US State Regulations

#### Massachusetts Right To Know

permethrin (ISO)	52645-53-1
ethylene oxide	75-21-8
propylene oxide	75-56-9

#### Pennsylvania Right To Know

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified	64742-95-6
permethrin (ISO)	52645-53-1

butan-1-ol

71-36-3

#### Maine Chemicals of High Concern

Product does not contain any listed chemicals

#### Vermont Chemicals of High Concern

Product does not contain any listed chemicals

#### Washington Chemicals of High Concern

Product does not contain any listed chemicals

#### California Prop. 65

WARNING: This product can expose you to chemicals including ethylene oxide, propylene oxide, which is/are known to the State of California to cause cancer, and ethylene oxide, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
AIIC	: Not in compliance with the inventory
DSL	: This product contains chemical substance(s) exempt from CEPA DSL Inventory requirements. It is regulated as a pesticide subject to Pest Control Products Act (PCPA) requirements. Read the PCPA label, authorized under the Pest Con-

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version  
1.0

Revision Date:  
01/09/2025

SDS Number:  
50000489

Date of last issue: 01/09/2025  
Date of first issue: 01/09/2025

---

trol Products Act, prior to using or handling this pest control product.

ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIoC	:	Not in compliance with the inventory
TECI	:	On the inventory, or in compliance with the inventory

### TSCA list

No substances are subject to a Significant New Use Rule.

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

### FIFRA information

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

Causes eye irritation, Avoid contact with skin, eyes and clothing., Harmful if swallowed, Harmful if inhaled, This pesticide is toxic to fish and other wildlife., This product is highly toxic to bees.

---

## SECTION 16. OTHER INFORMATION

### Further information

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

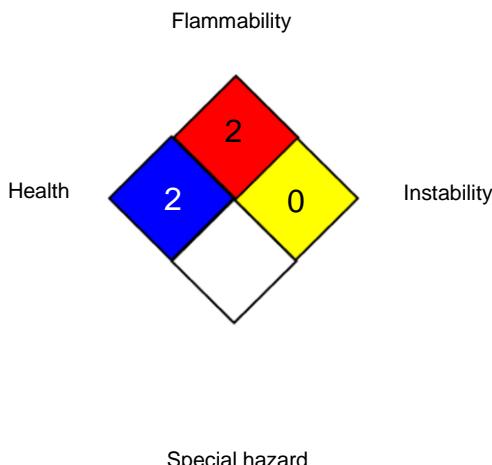
Version  
1.0

Revision Date:  
01/09/2025

SDS Number:  
50000489

Date of last issue: 01/09/2025  
Date of first issue: 01/09/2025

### NFPA 704:



**0** No health threat, **1** Slightly Hazardous, **2** Hazardous, **3** Extreme danger, **4** Deadly

### HMIS® IV:



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

### Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
OSHA P0	: USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
ACGIH / TWA	: 8-hour, time-weighted average
OSHA P0 / TWA	: 8-hour time weighted average

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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## PIRESTAR 380 EC

Version 1.0	Revision Date: 01/09/2025	SDS Number: 50000489	Date of last issue: 01/09/2025 Date of first issue: 01/09/2025
----------------	------------------------------	-------------------------	---

lative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

### Disclaimer

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. You can contact FMC Corporation to insure that this document is the most current available from FMC Corporation. No warranty of fitness for any particular purpose, warranty of merchantability or any other warranty, expressed or implied, is made concerning the information provided herein. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. The user is responsible for determining whether the product is fit for a particular purpose and suitable for the user's conditions and methods of use. Since the conditions and methods of use are beyond the control of FMC Corporation, FMC Corporation expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

US / EN

### Prepared by:

FMC Corporation

FMC and the FMC Logo are trademarks of FMC Corporation and/or an affiliate.

© 2021-2025 FMC Corporation. All Rights Reserved.

End of Material Safety Data Sheet