

# SAFETY DATA SHEET



## SOFERO™ FALL Pheromone

Version 1.0      Revision Date: 13.11.2024      SDS Number: 50003010      Date of last issue: -  
Date of first issue: 13.11.2024

### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SOFERO™ FALL Pheromone

Other means of identification : 9BC 200CS

#### Manufacturer or supplier's details

Company : FMC QUÍMICA DO BRASIL LTDA.

Address : AVENIDA DR. JOSÉ BONIFÁCIO  
COUTINHO NOGUEIRA 150 - 1º  
ANDAR - JARDIM MADALENA,  
CAMPINAS SP BRASIL  
TELEFONE: (19) 2042-4500

Emergency telephone : Brazil: (34) 3319 3019 or 0800 34 35 450 (24 hours)  
+55-2139581449 (CHEMTREC)

### SECTION 2. HAZARDS IDENTIFICATION

#### GHS Classification in accordance with ABNT NBR 14725 Standard

Not classified as hazardous in accordance with ABNT NBR 14725

#### GHS label elements in accordance with ABNT NBR 14725 Standard

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

#### Other hazards which do not result in classification

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
(Z)-tetradec-9-enyl acetate	16725-53-4	Skin corrosion/irritation, 2 Aquatic Chronic, 4	$\geq 20$ -< 25
acetic acid	64-19-7	Flam. Liq., 3 Acute Tox. (Oral), 5 Skin corrosion/irritation, 1A Serious eye damage/eye irritation, 1	$\geq 1$ -< 3

### SECTION 4. FIRST AID MEASURES

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|---|---|
| General advice  | : Do not leave the victim unattended.   |
| If inhaled  | : If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.   |
| In case of skin contact                                     | : Wash off with soap and water.<br>If symptoms persist, call a physician.<br>Wash contaminated clothing before re-use.  |
| In case of eye contact                                      | : Remove contact lenses.<br>Protect unharmed eye.<br>If eye irritation persists, consult a specialist.  |
| If swallowed  | : Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician. |
| Most important symptoms and effects, both acute and delayed | : None known.   |
| 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, CO2, water spray or regular foam.  |
| Unsuitable extinguishing media                 | : Do not spread spilled material with high-pressure water streams.   |
| Hazardous combustion products                  | : Fire may produce irritating, corrosive and/or toxic gases.<br>Carbon oxides<br>Sulfur oxides   |
| Specific extinguishing methods                 | : Remove undamaged containers from fire area if it is safe to do so.<br>Use a water spray to cool fully closed containers.<br>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for fire-fighters | : Firefighters should wear protective clothing and self-contained breathing apparatus.   |

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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- 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.
- Environmental precautions : 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 : Normal measures for preventive fire protection.
- Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.
- 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.
- Conditions for safe storage : Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : No materials to be especially mentioned.
- 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 parameters / Permissible concentration	Basis
acetic acid	64-19-7	LT	8 ppm 20 mg/m3	BR OEL
		Further information: Degree of harmfulness: medium		
		TWA STEL	10 ppm 15 ppm	ACGIH ACGIH

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### Personal protective equipment

Respiratory protection	:	In the case of dust or aerosol formation use respirator with an approved filter.
Hand protection	:	
Material	:	Protective gloves
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 concentration of the dangerous substance at the work place.
Protective measures	:	Plan first aid action before beginning work with this product.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	encapsulated suspension
Form	:	encapsulated suspension
Color	:	Light brown to dark brown
Odor	:	characteristic
Odor Threshold	:	No data available
pH	:	8,02 (25 °C) Concentration: 10 g/l Method: CIPAC MT 75.3
Melting point/ range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	> 95 °C
Evaporation rate	:	No data available
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available

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Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	0,977 g/cm <sup>3</sup> Method: OECD Test Guideline 109
Bulk density	:	No data available
Solubility(ies) Water solubility	:	> 1.000 g/l Method: OECD Test Guideline 105
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Viscosity Viscosity, dynamic	:	1.575 mPa.s ( 20 °C) Method: OECD Test Guideline 114  1.238 mPa.s ( 40 °C) Method: OECD Test Guideline 114
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	Non-oxidizing
Molecular weight	:	Not applicable

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### 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	:	Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid	:	Avoid extreme temperatures. Avoid formation of aerosol.
Incompatible materials	:	Avoid strong acids, bases, and oxidizers.

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Hazardous decomposition products : No hazardous decomposition products are known.

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

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

#### Product:

Acute oral toxicity	: LD50 Oral (Rat, female): > 5.000 mg/kg Method: OECD Test Guideline 425 Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	: Remarks: Waived due to the physical properties of the formulation making it unable to be aerosolized.
Acute dermal toxicity	: LD50 Dermal (Rat): > 5.000 mg/kg Method: OECD Test Guideline 402 Symptoms: Irritation GLP: yes Assessment: The substance or mixture has no acute dermal toxicity

#### Components:

##### acetic acid:

Acute oral toxicity	: LD50 (Rat, male and female): 3.310 mg/kg
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#### Skin corrosion/irritation

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

#### Product:

Assessment	: Not classified as irritant
Method	: OECD Test Guideline 439
GLP	: yes

#### Components:

##### (Z)-tetradec-9-enyl acetate:

Assessment	: Irritating to skin.
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##### acetic acid:

Species	: Rabbit
Result	: Corrosive after 3 minutes or less of exposure

#### Serious eye damage/eye irritation

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

#### Product:

Assessment	: Not classified as irritant
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Method	:	OECD 491
Assessment	:	Not classified as irritant
Method	:	Bovine cornea (BCOP)

### **Components:**

#### **acetic acid:**

Result	:	Irreversible effects on the eye
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### **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	:	Local lymph node test
Routes of exposure	:	Dermal
Species	:	Mouse
Assessment	:	Not a skin sensitizer.
Method	:	OECD Test Guideline 429
GLP	:	yes

### **Germ cell mutagenicity**

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

### **Components:**

#### **acetic acid:**

Germ cell mutagenicity - Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.
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### **Carcinogenicity**

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

### **Components:**

#### **acetic acid:**

Carcinogenicity - Assessment	:	Weight of evidence does not support classification as a carcinogen
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### **Reproductive toxicity**

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

### **Components:**

#### **acetic acid:**

Reproductive toxicity - Assessment	:	Weight of evidence does not support classification for reproductive toxicity
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### STOT-single exposure

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

### STOT-repeated exposure

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

### Aspiration toxicity

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

### Experience with human exposure

#### Components:

#### acetic acid:

General Information	:	Symptoms: corrosive effects
Inhalation	:	Target Organs: Respiratory Tract Symptoms: corrosive effects
Skin contact	:	Target Organs: Mucous membranes Symptoms: corrosive effects  Target Organs: Skin Symptoms: corrosive effects
Eye contact	:	Target Organs: Eyes Symptoms: corrosive effects
Ingestion	:	Target Organs: Gastrointestinal tract Symptoms: corrosive effects

### Further information

#### Product:

Remarks : No data available

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish	:	Remarks: No data is available on the product itself.
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data is available on the product itself.
Toxicity to algae/aquatic plants	:	Remarks: No data is available on the product itself.
Toxicity to fish (Chronic toxicity)	:	Remarks: No data is available on the product itself.
Toxicity to daphnia and other aquatic invertebrates (Chron-	:	Remarks: No data is available on the product itself.



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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.  LD50 ( <i>Eisenia fetida</i> (earthworms)): 1.000 mg/kg Exposure time: 14 d Method: OECD Test Guideline 207
Toxicity to terrestrial organisms	: LD50 ( <i>Coturnix japonica</i> (Japanese quail)): > 10.000 mg/kg Method: OECD Test Guideline 223 GLP: yes

### Components:

#### **(Z)-tetradec-9-enyl acetate:**

#### **Ecotoxicology Assessment**

Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

#### **acetic acid:**

Toxicity to fish	: LC50 ( <i>Oncorhynchus mykiss</i> (rainbow trout)): > 300 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 ( <i>Daphnia magna</i> (Water flea)): > 300 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: EC50 ( <i>Skeletonema costatum</i> (marine diatom)): > 1.000 mg/l Exposure time: 72 h Method: ISO 10253  NOEC ( <i>Skeletonema costatum</i> (marine diatom)): > 1.000 mg/l Exposure time: 72 h Method: ISO 10253
Toxicity to fish (Chronic toxicity)	: NOEC ( <i>Oncorhynchus mykiss</i> (rainbow trout)): 34,3 mg/l Exposure time: 21 d Method: OECD Test Guideline 204
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC ( <i>Daphnia magna</i> (Water flea)): 31,4 mg/l End point: reproduction Exposure time: 21 d GLP: yes
Toxicity to microorganisms	: NOEC ( <i>Pseudomonas putida</i> ): 850 mg/l

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Exposure time: 16 h

### Persistence and degradability

#### Components:

##### acetic acid:

Biodegradability : Result: Readily biodegradable.

### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

#### Components:

##### acetic acid:

Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 3,16

Partition coefficient: n-octanol/water : log Pow: -0,17 (20 °C)

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Additional ecological information : No data is available on the product itself.  
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

Contaminated packaging : It is prohibited to reuse, bury, burn or sell packaging.

Washable packaging: Triple wash packs of less than 20 liters and pressure wash packs of 20 liters or more. Triple Wash (Manual Wash): Completely empty the contents of the package into the sprayer tank, keeping it in an upright position for 30 seconds; Add clean water to the package up to ¼ of its volume; Cover the package well and shake it for 30 seconds; Pour the wash water into the spray tank; Do this operation three times; Make the plastic or metal packaging unusable by perforating the bottom.

Pressure wash: Fit the empty package in the appropriate place of the funnel installed on the sprayer; Activate the

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mechanism to release the water jet; Direct the water jet to all the inside walls of the package, for 30 seconds; Wash water must be transferred to the sprayer tank; Make the plastic or metal packaging unusable by perforating the bottom. In both procedures, puncture the container at its base without damaging the label. Within a period of up to one year from the date of purchase, the user must return the empty packaging, with lid, to the establishment where the product was purchased or to the place indicated on the invoice, issued at the time of purchase. Activate the mechanism to release the water jet. Direct the water jet to all the inside walls of the package, for 30 seconds. Wash water must be transferred to the sprayer tank. Make the plastic or metal packaging unusable by perforating the bottom.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

Not regulated as a dangerous good

##### IATA-DGR

Not regulated as a dangerous good

##### IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

#### Domestic regulation

##### ANTT

Not regulated as a dangerous good

#### Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

### SECTION 15. REGULATORY INFORMATION

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

Law No. 14,785 of December 27, 2023. Decree 4,074 of January 4, 2002 and its regulatory standards. ANTT Resolution No. 5,998/22 of November 3, 2022. This MSDS was prepared in accordance with the criteria of ABNT NBR 14725. The user is recommended to pay attention to local regulations.

National List of Carcinogenic Agents for Humans - (LINACH) : Not applicable

Brazil. List of chemicals controlled by the Federal Police : Not applicable

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

TCSI	: Not 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 the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.  (Z)-tetradec-9-enyl acetate
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	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
NZIoC	: Not in compliance with the inventory
TECI	: Not in compliance with the inventory

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### SECTION 16. OTHER INFORMATION

Revision Date	: 13.11.2024
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#### Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
BR OEL	: Brazil. NR 15 - Unhealthy activities and operations
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit
BR OEL / LT	: Up to 48 hours /week

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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 con-

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centration; 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

### Disclaimer

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