

# SAFETY DATA SHEET

## PROSTORE® 25 EC



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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PROSTORE® 25 EC

#### 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

Telephone : (19) 2042-4500

E-mail address : SDS-Info@fmc.com

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

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

Recommended use : Insecticide

Restrictions on use : Use as recommended by the label.

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### SECTION 2. HAZARDS IDENTIFICATION

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

Flammable liquids : Category 3

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 3

Acute toxicity (Dermal) : Category 5

Serious eye damage : Category 1

Carcinogenicity : Category 1B

Specific target organ toxicity - : Category 1 (Nervous system)  
single exposure

Specific target organ toxicity - : Category 3 (Respiratory system, Central nervous system)  
single exposure

Specific target organ toxicity - : Category 1 (Nervous system)

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repeated exposure

Aspiration hazard : Category 1

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

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

Hazard pictograms :     

Signal Word : Danger

Hazard Statements : H226 Flammable liquid and vapor.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H313 May be harmful in contact with skin.  
H318 Causes serious eye damage.  
H331 Toxic if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H350 May cause cancer.  
H370 Causes damage to organs (Nervous system).  
H372 Causes damage to organs (Nervous system) through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

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/ sparks/ open flames/ hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
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.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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### Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

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

P391 Collect spillage.

### 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.

### Additional Labeling

The following percentage of the mixture consists of ingredient(s) with unknown acute oral toxicity: 1,2848 %

### Other hazards which do not result in classification

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Classification	Concentration (% w/w)
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified	64742-95-6	Flammable liquids, Category 3 Acute toxicity (Oral), Category 5 Acute toxicity (Dermal), Category 5 Skin corrosion/irritation,	>= 70 -< 90

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		Category 3 Carcinogenicity, Category 1B Specific target organ toxicity - single exposure (Respiratory system, Central nervous system), Category 3 Aspiration hazard, Category 1 Short-term (acute) aquatic hazard, Category 2 Long-term (chronic) aquatic hazard, Category 2	
Bifenthrin	82657-04-3	Acute toxicity (Oral), Category 3 Acute toxicity (Inhalation), Category 3 Acute toxicity (Dermal), Category 5 Skin sensitization, Category 1 Specific target organ toxicity - single exposure (Central nervous system), Category 1 Specific target organ toxicity - repeated exposure (Central nervous system), Category 1 Short-term (acute) aquatic hazard, Category 1 Long-term (chronic) aquatic hazard, Category 1	>= 2,5 -< 5
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts (alternate CAS 26264-06-2)	68584-23-6	Acute toxicity (Dermal), Category 5 Skin irritation, Category 2 Serious eye damage, Category 1 Short-term (acute) aquatic hazard, Category 2	>= 1 -< 2,5

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		Long-term (chronic) aquatic hazard, Category 3	
2-ethylhexan-1-ol	104-76-7	Flammable liquids, Category 4 Acute toxicity (Oral), Category 5 Acute toxicity (Inhalation), Category 4 Skin irritation, Category 2 Eye irritation, Category 2A Specific target organ toxicity - single exposure (Respiratory system), Category 3 Short-term (acute) aquatic hazard, Category 3	$\geq 1 - < 2,5$

### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Symptoms of poisoning may appear several hours later.  
Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
Seek medical advice.
- 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.

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Most important symptoms and effects, both acute and delayed : Harmful if swallowed.  
May be fatal if swallowed and enters airways.  
May be harmful in contact with skin.  
Causes serious eye damage.  
Toxic if inhaled.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
May cause cancer.  
Causes damage to organs.  
Causes damage to organs through prolonged or repeated exposure.  
Swallowing or inhaling may result in sudden shortness of breath, coughing, nausea and or abdominal pain.  
Contact with skin may cause tingling, itching, burning, or numbness at the site of contact. Inhalation may irritate the nose, throat, and lungs. Swallowing large quantities may result in throat irritation, nausea, abdominal pain, and vomiting.  
Exposure may result in neurotoxicity with symptoms including tremors, impaired gait, and excessive salivation. Tremors may disappear with continued exposure.

Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.

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### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.

Unsuitable extinguishing media : 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.

Hazardous combustion products : Carbon oxides  
Hazardous combustion products  
Thermal decomposition can lead to release of irritating gases and vapors.  
Halogenated compounds

Carbon oxides  
Hazardous combustion products  
Thermal decomposition can lead to release of irritating gases and vapors.  
Halogenated compounds

Specific extinguishing methods : 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.  
For safety reasons in case of fire, cans should be stored separately in closed containments.

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

Use a water spray to cool fully closed containers.

Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special protective equipment : Firefighters should wear protective clothing and self-contained for fire-fighters breathing apparatus.

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### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.  
If it can be safely done, stop the leak.  
Do not touch or walk through the spilled material.

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.

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### SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).  
Keep away from open flames, hot surfaces and sources of ignition.

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapors/dust.  
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.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.

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Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

For personal protection see section 8.  
Avoid formation of respirable particles.  
Dispose of rinse water in accordance with local and national regulations.  
Smoking, eating and drinking should be prohibited in the application area.

Hygiene measures : When using do not eat or drink.  
When using do not smoke.  
Wash hands before breaks and at the end of workday.

General industrial hygiene practice.  
Avoid contact with skin, eyes and clothing.  
Do not inhale aerosol.

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.

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
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified	64742-95-6	TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	ACGIH

#### Personal protective equipment

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

Hand protection



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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.

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### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Color	:	yellow, transparent
Odor	:	characteristic
Odor Threshold	:	No data available
pH	:	5,77 (ca. 20,2 °C) Concentration: 10 g/l
Melting point/range	:	No data available
Boiling point/boiling range	:	51 - 66 °C
Flash point	:	45 °C
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

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Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	0,891
Density	:	0,892 g/cm <sup>3</sup> (ca. 20,1 °C) Method: OECD Test Guideline 109
Solubility(ies)	:	
Water solubility	:	immiscible
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	:	1,84 mm <sup>2</sup> /s ( 20 °C) Method: OECD Test Guideline 114  1,37 mm <sup>2</sup> /s ( 40 °C) Method: OECD Test Guideline 114
Explosive properties	:	Not explosive
Oxidizing properties	:	Non-oxidizing
Surface tension	:	44 mN/m, 10 g/l, ca. 25 °C
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	:	No decomposition if stored and applied as directed. Vapors may form explosive mixture with air.
Conditions to avoid	:	Avoid extreme temperatures. Avoid formation of aerosol. Heat, flames and sparks.
Incompatible materials	:	Avoid strong acids, bases, and oxidizers.

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**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Harmful if swallowed.

May be harmful in contact with skin.

Toxic if inhaled.

**Product:**

Acute oral toxicity : Acute toxicity estimate: 1.159 mg/kg  
Method: Calculation method

Acute toxicity estimate: 1.314 mg/kg  
Method: Calculation method

Acute inhalation toxicity : LC50 (Rat): > 1,2 mg/l  
Exposure time: 2 h  
Test atmosphere: dust/mist  
Symptoms: lethargy, apathy, nasal discharge  
Remarks: no mortality

Assessment: The component/mixture is toxic after short term inhalation.

Acute dermal toxicity : LD50 (Rat): > 4.000 mg/kg  
Target Organs: Liver  
Assessment: The component/mixture is minimally toxic after single contact with skin.

**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.

**Bifenthrin:**

Acute oral toxicity : LD50 (Rat, female): 50 - 300 mg/kg  
Method: OECD Test Guideline 423

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Symptoms: Convulsions, ataxia  
Assessment: The component/mixture is toxic after single ingestion.

Acute inhalation toxicity : LC50 (Rat, female): 0,6 - 1,2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Symptoms: Tremors, Convulsions

LC50 (Rat, male): 1,10 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Symptoms: Tremors, Fatality

Acute dermal toxicity : LD50 (Rat, male and female): > 4.000 mg/kg  
Method: OECD Test Guideline 402  
Symptoms: Irritation  
GLP: yes  
Remarks: no mortality

**Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:**

Acute oral toxicity : LD50 (Rat, male and female): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
Remarks: Based on data from similar materials

Acute inhalation toxicity : LD50 (Rat, male and female): > 1,9 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit, male and female): > 4.000 mg/kg  
Remarks: Based on data from similar materials

**2-ethylhexan-1-ol:**

Acute oral toxicity : LD50 (Rat, male): 2.047 mg/kg

Acute inhalation toxicity : LC50 (Rat): 4,3 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rat, male and female): > 3.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

**Skin corrosion/irritation**

Not classified based on available information.

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### **Product:**

Assessment	:	No skin irritation
Result	:	No skin irritation

### **Components:**

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

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

#### **Bifenthrin:**

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	slight or no skin irritation.
GLP	:	yes

#### **Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:**

Assessment	:	Irritating to skin.
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#### **2-ethylhexan-1-ol:**

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Skin irritation

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

Causes serious eye damage.

### **Product:**

Assessment	:	Corrosive
Method	:	OECD Test Guideline 405

### **Components:**

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

Species	:	Rabbit
Result	:	No eye irritation

#### **Bifenthrin:**

Species	:	Rabbit
Result	:	Slight or no eye irritation
Method	:	OECD Test Guideline 405
GLP	:	yes

#### **Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:**

Assessment	:	Risk of serious damage to eyes.
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**2-ethylhexan-1-ol:**

Species	: Rabbit
Result	: Irritation to eyes, reversing within 21 days
Method	: OECD Test Guideline 405

**Respiratory or skin sensitization****Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Product:**

Assessment	: Not a skin sensitizer.
Result	: Not a skin sensitizer.

**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.

**Bifenthrin:**

Test Type	: Maximization Test
Routes of exposure	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: May cause sensitization by skin contact.
GLP	: yes

**Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:**

Test Type	: Buehler Test
Species	: Guinea pig
Result	: Not a skin sensitizer.
Remarks	: Based on data from similar materials

**Germ cell mutagenicity**

Not classified based on available information.

**Product:**

Genotoxicity in vitro	: Method: OECD Test Guideline 471 Result: negative
Genotoxicity in vivo	: Test Type: Micronucleus test Result: negative

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**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

**Bifenthrin:**

Genotoxicity in vitro : Test Type: gene mutation test  
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  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Mouse lymphoma assay  
Metabolic activation: with and without metabolic activation  
Result: negative

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

Test Type: unscheduled DNA synthesis assay  
Species: Rat  
Method: OECD Test Guideline 486  
Result: negative

**Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Application Route: Intraperitoneal injection  
Exposure time: 72 hrs

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Method: Mutagenicity (micronucleus test)  
Remarks: Based on data from similar materials

### 2-ethylhexan-1-ol:

Genotoxicity in vitro	:	Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: Mouse Application Route: Intraperitoneal injection Result: negative

### Carcinogenicity

May cause cancer.

### Components:

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

Carcinogenicity - Assessment	:	Possible human carcinogen
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#### **Bifenthrin:**

Species	:	Rat, female
Application Route	:	Oral
Exposure time	:	2 Years
NOAEL	:	3 mg/kg bw/day
Result	:	negative
Species	:	Mouse, male
Application Route	:	Oral
Exposure time	:	18 month(s)
NOAEL	:	7,6 mg/kg bw/day
Result	:	positive
Symptoms	:	malignant tumors

### 2-ethylhexan-1-ol:

Species	:	Rat
Application Route	:	Oral
Exposure time	:	24 month(s)
Result	:	negative

### Reproductive toxicity

Not classified based on available information.

### Components:

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

Effects on fertility	:	Test Type: Three-generation study Species: Rat
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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.

**Bifenthrin:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat  
Application Route: Oral  
General Toxicity Parent: NOAEL: 3 mg/kg bw/day  
General Toxicity F1: NOAEL: 5 mg/kg bw/day  
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rabbit  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 2,7 mg/kg bw/day  
Teratogenicity: NOAEL: 2,7 mg/kg bw/day  
Symptoms: Maternal effects.  
Result: No teratogenic effects.

Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 1 mg/kg bw/day  
Teratogenicity: NOAEL: 2 mg/kg bw/day  
Result: No teratogenic effects.

Species: Rat  
Application Route: Oral  
General Toxicity Maternal: LOAEL: 7,2 mg/kg bw/day  
Developmental Toxicity: LOAEL: 7,2 mg/kg bw/day  
Embryo-fetal toxicity.: NOEL: 9,0 mg/kg bw/day  
Method: OECD Test Guideline 426  
Result: Animal testing did not show any effects on fertility.,  
Some evidence of adverse effects on development, based on  
animal experiments.

**Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:**

Effects on fertility : Test Type: one-generation reproductive toxicity  
Species: Rat, male and female  
Application Route: Oral  
Method: OECD Test Guideline 415  
Result: No effects on fertility and early embryonic  
development were detected.

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**2-ethylhexan-1-ol:**

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Mouse  
Application Route: Oral  
Method: OECD Test Guideline 414  
Result: negative

**STOT-single exposure**

May cause respiratory irritation.  
May cause drowsiness or dizziness.  
Causes damage to organs (Nervous system).

**Product:**

Target Organs : Nervous system  
Assessment : Causes damage to organs.

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

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

**Bifenthrin:**

Target Organs : Central nervous system  
Assessment : Causes damage to organs.

**2-ethylhexan-1-ol:**

Assessment : May cause respiratory irritation.

**STOT-repeated exposure**

Causes damage to organs (Nervous system) through prolonged or repeated exposure.

**Product:**

Target Organs : Nervous system  
Assessment : Causes damage to organs through prolonged or repeated exposure.

**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.

**Bifenthrin:**

Target Organs : Central nervous system  
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

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### 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

##### **Bifenthrin:**

Species	: Rat, male and female
NOEL	: 100 ppm
Application Route	: Oral - feed
Exposure time	: 90 d
Remarks	: No toxicologically significant effects were found.

Species	: Dog, male and female
NOEL	: 2,5 mg/kg bw/day
Application Route	: Oral - feed
Exposure time	: 13 w
Symptoms	: Tremors

##### **Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:**

Species	: Rat, male and female
NOAEL	: 500 mg/kg
Application Route	: Oral
Method	: OECD Test Guideline 407
Remarks	: Based on data from similar materials

Species	: Rat, male and female
NOAEL	: 50 mg/m <sup>3</sup>
Application Route	: Inhalation
Method	: OECD Test Guideline 412
Remarks	: Based on data from similar materials

Species	: Rat, male and female
NOAEL	: > 1.000 mg/kg
Application Route	: Dermal
Method	: OECD Test Guideline 410
Remarks	: Based on data from similar materials

##### **2-ethylhexan-1-ol:**

Species	: Rat
	: 250 mg/kg

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Application Route : Oral  
Exposure time : 13 weeks  
Method : OECD Test Guideline 408

### 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.

### **Bifenthrin:**

The substance does not have properties associated with aspiration hazard potential.

### Further information

#### Product:

Remarks : Solvents may degrease the skin.

---

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Product:

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): 0,43 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0,289 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: EC50 (Selenastrum capricornutum (green algae)): 69,46 mg/l Exposure time: 72 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.
Toxicity to terrestrial organisms	: LD50 (Apis mellifera (bees)): 1,0 µg/bee Exposure time: 48 d Method: OECD Test Guideline 214 Remarks: Contact

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**Ecotoxicology Assessment**

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

**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.

**Bifenthrin:**

Toxicity to fish : LC50 (Salmo gairdneri): 0,00015 mg/l  
 Exposure time: 96 h  
 Test Type: flow-through test

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,00035 mg/l

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Exposure time: 96 h  
Test Type: flow-through test

LC50 (Oncorhynchus mykiss (rainbow trout)): 0,000256 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

LC50 (Pimephales promelas (fathead minnow)): 0,000234 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia): 0,00011 mg/l  
Exposure time: 48 h

LC50 (Daphnia): 0,0016 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (algae): 0,822 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1.000

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0,00012 mg/l  
Exposure time: 21 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0,0013 µg/l  
Exposure time: 21 d

NOEC (Daphnia magna (Water flea)): 0,00095 µg/l  
Exposure time: 21 d

M-Factor (Chronic aquatic toxicity) : 100.000

Toxicity to soil dwelling organisms : LD50 (Eisenia fetida (earthworms)): > 16 mg/kg  
Exposure time: 14 d

Method: OECD Test Guideline 216  
Remarks: No significant adverse effect on Nitrogen mineralization.

Toxicity to terrestrial organisms : LD50 (Colinus virginianus (Bobwhite quail)): 1.800 mg/kg

LD50 (Anas platyrhynchos (Mallard duck)): > 2.150 mg/kg

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LD50 (Apis mellifera (bees)): 0.1 - 0.35 µg/bee  
Exposure time: 24 h  
End point: Acute oral toxicity  
Method: OECD Test Guideline 213

LD50 (Apis mellifera (bees)): 0.1 - 0.3 µg/bee  
Exposure time: 24 h  
End point: Acute contact toxicity  
Method: OECD Test Guideline 214

### Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:

Toxicity to fish : LL50 (Marine species): 10.000 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

LL50 (Pimephales promelas (fathead minnow)): 1.000 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to microorganisms : NOEC (activated sludge): 10.000 mg/l  
Method: OECD Test Guideline 209  
GLP: yes

### Ecotoxicology Assessment

Acute aquatic toxicity : Toxic to aquatic life.

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

### 2-ethylhexan-1-ol:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 17,1 - 28,2 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 39 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC10 (Desmodesmus subspicatus (green algae)): 3,2 mg/l  
Exposure time: 72 h

EC50 (Desmodesmus subspicatus (green algae)): 11,5 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : EC50 (Anabaena flos-aquae (cyanobacterium)): 16,6 mg/l

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Exposure time: 72 h

### Persistence and degradability

#### Product:

Biodegradability : Result: Not rapidly biodegradable

#### 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

##### **Bifenthrin:**

Biodegradability : Result: Not readily biodegradable.

##### **Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:**

Biodegradability : Result: Not readily biodegradable.

##### **2-ethylhexan-1-ol:**

Biodegradability : Result: Readily biodegradable.

### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: This mixture contains substances considered to be very persistent and very bioaccumulating (vPvB).

Remarks: No data available

#### Components:

##### **Bifenthrin:**

Bioaccumulation : Species: *Lepomis macrochirus* (Bluegill sunfish)  
Bioconcentration factor (BCF): 1.709  
Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.  
See section 9 for octanol-water partition coefficient.

Partition coefficient: n-octanol/water : log Pow: 6

##### **Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:**

Partition coefficient: n-octanol/water : log Pow: 22,1



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### 2-ethylhexan-1-ol:

Partition coefficient: n-octanol/water : log Pow: 2,9 (25 °C)

### Mobility in soil

#### Components:

#### **Bifenthrin:**

Distribution among environmental compartments : Koc: 236610 ml/g, log Koc: 5,37  
Remarks: immobile

Stability in soil :

### Other adverse effects

#### Product:

Results of PBT and vPvB assessment : This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

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.

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## 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.

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 mechanism to release the water jet; Direct the water jet to all the inside walls of the package, for 30 seconds; Wash water

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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.

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### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

UN number	: UN 3351
Proper shipping name	: PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE (Aromatic solvent, Bifenthrin)
Class	: 6.1
Subsidiary risk	: 3
Packing group	: III
Labels	: 6.1 (3)

##### IATA-DGR

UN/ID No.	: UN 3351
Proper shipping name	: Pyrethroid pesticide, liquid, toxic, flammable (Aromatic solvent, Bifenthrin)
Class	: 6.1
Subsidiary risk	: 3
Packing group	: III
Labels	: Toxic, Flammable Liquids
Packing instruction (cargo aircraft)	: 663
Packing instruction (passenger aircraft)	: 655

##### IMDG-Code

UN number	: UN 3351
Proper shipping name	: PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE (Aromatic solvent, Bifenthrin)
Class	: 6.1
Subsidiary risk	: 3
Packing group	: III
Labels	: 6.1 (3)
EmS Code	: F-E, S-D
Marine pollutant	: no

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

Not applicable for product as supplied.

#### Domestic regulation

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### ANTT

UN number	:	UN 3351
Proper shipping name	:	PYRETHROID PESTICIDE, LIQUID, TOXIC, FLAMMABLE, , WITH PFG = OR > THAN 23° C (Aromatic solvent, Bifenthrin)
Class	:	6.1
Subsidiary risk	:	3
Packing group	:	III
Labels	:	6.1 (3)
Hazard Identification Number	:	63

### Special precautions for user

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

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## SECTION 15. REGULATORY INFORMATION

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

Law No. 7802 of July 11, 1989. Decree No. 4074 of January 4, 2002 and its regulatory rules. ANTT Resolution nº 5.998/22 of November 3, 2022. This FISPQ was prepared in accordance with the criteria of ABNT NBR 14725. It is recommended that the user pay attention to local regulations

Law No. 7802 of July 11, 1989. Decree No. 4074 of January 4, 2002 and its regulatory rules. ANTT Resolution nº 5.998/22 of November 3, 2022. This FISPQ was prepared in accordance with the criteria of ABNT NBR 14725. It is recommended that the user pay attention to local regulations

National List of Carcinogenic Agents for Humans - (LINACH)

Group 2B: Possibly carcinogenic to humans

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified 64742-95-6

Brazil. List of chemicals controlled by the Federal Police	:	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified
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### 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 the following components that are not on the Canadian DSL nor NDSL.

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2-METHYLBIPHENYL-3-YLMETHYL (Z)-(1RS,3RS)-3-(2-CHLORO-3,3,3-TRIFLUOROPROP-1-ENYL)-2,2-DIMETHYLCYCLOPROPANECARBOXYLATE

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	: On the inventory, or in compliance with the inventory
NZIoC	: Not in compliance with the inventory
TECI	: Not in compliance with the inventory

### SECTION 16. OTHER INFORMATION

Revision Date	: 02.05.2023
Date format	: dd.mm.yyyy

#### Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
ACGIH / TWA	: 8-hour, time-weighted average

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 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; 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

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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

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