

# SAFETY DATA SHEET



## AURORA® 400 EC

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : AURORA® 400 EC

Other means of identification : Converge® 400 EC  
Platform® 400 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  
TELEFONE: (19) 2042.4500

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

Medical Emergency Number : 0800 7010 450

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

Recommended use : Herbicide

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 5

Acute toxicity (Dermal) : Category 5

Carcinogenicity : Category 2

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

Specific target organ toxicity - : Category 2 (Liver)  
repeated exposure

Aspiration hazard : Category 1

Short-term (acute) aquatic : Category 1  
hazard

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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.  
H303 + H313 May be harmful if swallowed or in contact with skin.  
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.  
H373 May cause damage to organs (Liver) 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, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.  
P260 Do not breathe mist or vapors.  
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/ hearing protection.  
**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P302 + P312 IF ON SKIN: Call a POISON CENTER/ doctor if you feel unwell.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
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

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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.

### 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	Flam. Liq., 3 Acute Tox. (Oral), 5 Acute Tox. (Inhalation), 4 Acute Tox. (Dermal), 5 Skin corrosion/irritation, 2 Serious eye damage/eye irritation, 2A Carc., 2 STOT SE, (Respiratory system, Central nervous system) , 3 Asp. Tox., 1 Aquatic Acute, 2 Aquatic Chronic, 2	>= 50 -< 70
carfentrazone-ethyl (ISO)	128639-02-1	Acute Tox. (Dermal), 5 Aquatic Acute, 1 Aquatic Chronic, 1	>= 30 -< 50
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts (alternate CAS 26264-06-2)	68584-23-6	Acute Tox. (Dermal), 5 Skin corrosion/irritation, 2 Serious eye damage/eye irritation, 1 Aquatic Acute, 2 Aquatic Chronic, 3	>= 3 -< 5
2-ethylhexan-1-ol	104-76-7	Flam. Liq., 4 Acute Tox. (Oral), 5 Acute Tox. (Inhalation), 4	>= 1 -< 2,5

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		tion), 4 Skin corro- sion/irritation, 2 Serious eye dam- age/eye irritation, 2A STOT SE, (Respirato- ry system) , 3 Aquatic Acute, 3	
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### 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.
- 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 : May be harmful if swallowed or in contact with skin.  
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 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

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| 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                  | : Fire may produce irritating, corrosive and/or toxic gases.<br>Carbon oxides<br>Nitrogen oxides (NO <sub>x</sub> )<br>Chlorine compounds<br>Fluorine compounds<br>Hydrogen cyanide<br>Hydrogen chloride   |
| 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

- |   |   |
|---|---|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.<br>Ensure adequate ventilation.<br>Remove all sources of ignition.<br>Evacuate personnel to safe areas.<br>Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.   |
| Environmental precautions   | : Prevent further leakage or spillage if safe to do so.<br>Prevent product from entering drains.<br>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.<br>Collect as much of the spill as possible with a suitable absorbent material.<br>Pick up and transfer to properly labeled containers.<br>Keep in suitable, closed containers for disposal. |

### SECTION 7. HANDLING AND STORAGE

- |                              |   |
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| Advice on protection against | : Do not spray on a naked flame or any incandescent material. |
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- fire and explosion      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.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.
- 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      :    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 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
carfentrazone-ethyl (ISO)	128639-02-1	TWA (Inhalable particulate matter)	1 mg/m <sup>3</sup>	ACGIH
2-ethylhexan-1-ol	104-76-7	TWA	5 ppm	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	:	liquid
Color	:	yellow
Odor	:	characteristic
Odor Threshold	:	No data available
pH	:	4,4 - 4,6 (ca. 20 °C) Concentration: 10 g/l
Melting point/ range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	52 °C
Evaporation rate	:	No data available
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	Not available for this mixture.
Lower explosion limit / Lower flammability limit	:	Not available for this mixture.

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Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	1,0721
Density	:	1,0721 g/cm <sup>3</sup> (ca. 20 °C) 1,0556 g/cm <sup>3</sup> (ca. 20 °C)
Solubility(ies)		
Water solubility	:	Miscible
Solubility in other solvents	:	Miscible Solvent: Toluene  Miscible Solvent: Methanol
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	5.674 mPa.s ( 20 °C)
Viscosity, kinematic	:	59,62 mm <sup>2</sup> /s ( 20 °C) 5,16 mm <sup>2</sup> /s ( 40 °C)
Explosive properties	:	Not explosive
Oxidizing properties	:	Non-oxidizing
Surface tension	:	35,34 mN/m, 10 g/l, ca. 25 °C 29,71 mN/m, 10 g/l, ca. 25 °C
Molecular weight	:	Not applicable
Metal corrosion rate	:	Not corrosive to metals.

### SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.



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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

May be harmful if swallowed or in contact with skin.

#### Product:

Acute oral toxicity	:	LD50 (Rat): > 3.000 mg/kg Assessment: The component/mixture is minimally toxic after single ingestion. Remarks: no mortality
Acute inhalation toxicity	:	LC50 (Rat): > 10,41 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity Remarks: no mortality
Acute dermal toxicity	:	LD50 (Rat): > 4.000 mg/kg Assessment: The component/mixture is minimally toxic after single contact with skin. Remarks: no mortality

#### 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  Assessment: The component/mixture is moderately toxic after

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short term inhalation.

Acute dermal toxicity : LD50 (Rabbit, male and female): > 3.160 mg/kg  
Assessment: The component/mixture is minimally toxic after single contact with skin.

**carfentrazone-ethyl (ISO):**

Acute oral toxicity : LD50 (Rat, female): 5.143 mg/kg  
Method: US EPA Test Guideline OPP 81-1  
Symptoms: Tremors  
GLP: yes

LD50 (Rat, female): > 5.000 mg/kg  
Method: OECD Test Guideline 425  
GLP: yes  
Assessment: The substance or mixture has no acute oral toxicity  
Remarks: no mortality

Acute inhalation toxicity : LC50 (Rat, male and female): > 5,09 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: EPA OPP 81 - 3  
Symptoms: Tremors, chromodacryorrhea, nasal discharge  
GLP: yes  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: no mortality

Acute dermal toxicity : LD50 (Rat, male and female): > 4.000 mg/kg  
Method: US EPA Test Guideline OPP 81-2  
GLP: yes  
Assessment: The component/mixture is minimally toxic after single contact with skin.  
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

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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

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

#### Product:

Species : Rabbit  
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

Assessment : Irritating to skin.

##### **carfentrazone-ethyl (ISO):**

Species : Rabbit  
Assessment : Not classified as irritant  
Method : US EPA Test Guideline OPP 81-5  
Result : slight irritation  
GLP : yes

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

Assessment : Irritating to skin.

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

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

### Serious eye damage/eye irritation

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

#### Product:

Species : Rabbit  
Result : No eye irritation  
Assessment : No eye irritation

Remarks : Vapors may cause irritation to the eyes, respiratory system

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and the skin.

### **Components:**

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

Species	: Rabbit
Result	: No eye irritation

Assessment	: Irritating to eyes.
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#### **carfentrazone-ethyl (ISO):**

Species	: Rabbit
Result	: slight irritation
Assessment	: Not classified as irritant
Method	: EPA OPP 81-4
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**

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

#### **Respiratory sensitization**

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

### **Product:**

Routes of exposure	: Dermal
Species	: Guinea pig
Assessment	: Not a skin sensitizer.
Result	: Does not cause skin sensitization.

### **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.

#### **carfentrazone-ethyl (ISO):**

Routes of exposure	: Skin contact
Species	: Guinea pig

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Method : US EPA Test Guideline OPP 81-6  
Result : Does not cause skin sensitization.  
GLP : yes

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : Does not cause skin sensitization.  
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**

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

#### **Product:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
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

### **carfentrazone-ethyl (ISO):**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

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Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: yes

Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: U.S. EPA 84-2  
Result: negative  
GLP: yes

Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test Type: Chromosome aberration test in vitro  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 473  
Result: negative  
GLP: yes

Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Result: negative  
GLP: yes

Test Type: unscheduled DNA synthesis assay  
Species: Rat (male)  
Result: negative  
GLP: yes

Germ cell mutagenicity - Assessment : No genotoxic potential.

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

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

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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

Suspected of causing cancer.

#### Components:

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

Carcinogenicity - Assessment	: Limited evidence of carcinogenicity in animal studies
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#### **carfentrazone-ethyl (ISO):**

Species	: Rat, female
Application Route	: Ingestion
Exposure time	: 2 Years
NOAEL	: 3 mg/kg bw/day
LOAEL	: 12 mg/kg bw/day
Method	: U.S. EPA 83-5
Result	: no increase in tumors observed
Target Organs	: Liver
GLP	: yes

Species	: Mouse, female
Application Route	: Ingestion
Exposure time	: 80 weeks
NOAEL	: 10 mg/kg bw/day
LOAEL	: 110 mg/kg bw/day
Method	: U.S. EPA 83-5
Result	: no increase in tumors observed
Target Organs	: Liver
GLP	: yes

Carcinogenicity - Assessment	: Animal testing did not show any carcinogenic effects.
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#### **2-ethylhexan-1-ol:**

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

### Reproductive toxicity

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

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**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.

**carfentrazone-ethyl (ISO):**

Effects on fertility : Test Type: Multi-generation study  
Species: Rat, male and female  
Application Route: Ingestion  
Fertility: NOEL: 4.000 ppm  
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat, female  
Application Route: Oral  
General Toxicity Maternal: NOEL: 100 mg/kg bw/day  
Embryo-fetal toxicity.: NOEL: 600 mg/kg bw/day  
Result: negative

Test Type: Embryo-fetal development  
Species: Rabbit, female  
Application Route: Oral  
General Toxicity Maternal: NOEL: 150 mg/kg bw/day  
Embryo-fetal toxicity.: NOEL: > 300 mg/kg bw/day  
Result: negative

Reproductive toxicity - Assessment : Animal testing showed no reproductive toxicity.

**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.

**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



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### STOT-single exposure

May cause respiratory irritation.  
May cause drowsiness or dizziness.

#### Components:

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

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

#### **carfentrazone-ethyl (ISO):**

Remarks : No significant adverse effects were reported

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

Assessment : May cause respiratory irritation.

### STOT-repeated exposure

May cause damage to organs (Liver) through prolonged or repeated exposure.

#### Product:

Target Organs : Liver  
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.

#### **carfentrazone-ethyl (ISO):**

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

### 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

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**carfentrazone-ethyl (ISO):**

Species	: Mouse, male
NOAEL	: 143 mg/kg
LOAEL	: 571 mg/kg
Application Route	: Oral
Exposure time	: 90 days
Method	: EPA 82-1
GLP	: yes
Target Organs	: Blood, Liver

Species	: Dog, male and female
NOEL	: 150 mg/kg
LOAEL	: 500 mg/kg
Application Route	: Oral
Exposure time	: 90 days
Target Organs	: Blood

Species	: Dog, male and female
NOEL	: 50 mg/kg
NOAEL	: 150 mg/kg
LOAEL	: 500 mg/kg
Application Route	: Oral
Exposure time	: 12 months
GLP	: yes
Target Organs	: Blood

Species	: Rat, male
NOAEL	: 58 mg/kg
Exposure time	: 90 d
Method	: EPA 82-1
GLP	: yes

**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/m3
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
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	:	250 mg/kg
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.

### **carfentrazone-ethyl (ISO):**

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

### Neurological effects

### Components:

### **carfentrazone-ethyl (ISO):**

No neurotoxicity observed in animal 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.
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## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

### Product:

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 12,9 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia similis (Water flea)): 13,1 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): 0,06 mg/l Exposure time: 96 h
Toxicity to soil dwelling organisms	:	LC50 (Eisenia fetida (earthworms)): 2.219 mg/kg Exposure time: 14 d

Remarks: No significant adverse effect on Nitrogen mineralization.

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Remarks: No significant adverse effect on Carbon mineralization.

Toxicity to terrestrial organisms : (Coturnix japonica (Japanese quail)): > 2.000 mg/kg

LC50 (Apis mellifera (bees)): > 100  
Exposure time: 48 h  
End point: Acute contact toxicity

### 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.

### **Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic to aquatic life.

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

**carfentrazone-ethyl (ISO):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2,55 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test  
 Method: OECD Test Guideline 203

LC50 (Menidia beryllina (Silverside)): 1,14 mg/l  
 Exposure time: 96 h  
 Test Type: flow-through test

LC50 (Oncorhynchus mykiss (rainbow trout)): 1,6 mg/l  
 Exposure time: 96 h  
 Test Type: flow-through test  
 Method: EPA OPP 72-1

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 9,8 mg/l  
 End point: Immobilization  
 Exposure time: 48 h  
 Method: OECD Test Guideline 202  
 Remarks: No toxicity at the limit of solubility.

Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): 0,0133 mg/l  
 Exposure time: 72 h  
 Method: OECD Test Guideline 201  
 GLP: yes

NOEC (Selenastrum capricornutum (green algae)): 0,00933 mg/l  
 End point: Growth rate  
 Exposure time: 72 h  
 Method: OECD Test Guideline 201  
 GLP: yes

EbC50 (Selenastrum capricornutum (green algae)): 16 µg/l  
 Exposure time: 120 h

EC50 (Navicula pelliculosa (Diatom)): 12 µg/l  
 Exposure time: 72 h  
 Test Type: static test

EC50 (Skeletonema costatum (Diatom)): 15 µg/l  
 Exposure time: 72 h  
 GLP: yes

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 22 µg/l  
 Exposure time: 89 d  
 Test Type: Early Life-Stage

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	Method: OECD Test Guideline 210 GLP: yes
	NOEC (Oncorhynchus mykiss (rainbow trout)): 0,118 mg/l Exposure time: 102 d Test Type: flow-through test Method: US EPA Test Guideline OPP 72-4
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 0,309 mg/l End point: Growth Exposure time: 21 d Method: OECD Test Guideline 202
M-Factor (Chronic aquatic toxicity)	: 10
Toxicity to microorganisms	: NOEC (activated sludge): 1.000 mg/l Test Type: Respiration inhibition Method: OECD Test Guideline 209
Toxicity to soil dwelling organisms	: NOEC (Eisenia fetida (earthworms)): 820 mg/kg
	Method: OECD Test Guideline 216 Remarks: No significant adverse effect on Nitrogen mineralization.
	Method: OECD Test Guideline 217 Remarks: No significant adverse effect on Carbon mineralization.
Toxicity to terrestrial organisms	: LD50 (Anas platyrhynchos (Mallard duck)): > 5.620 ppm End point: Acute oral toxicity Remarks: Dietary
	LD50 (Colinus virginianus (Bobwhite quail)): 2.250 mg/kg End point: Acute oral toxicity
	NOEL (Colinus virginianus (Bobwhite quail)): 1000 ppm End point: Reproduction Test
	LD50 (Apis mellifera (bees)): > 200 µg/bee End point: Acute oral toxicity
	LD50 (Apis mellifera (bees)): > 200 µg/bee End point: Acute contact toxicity

### Ecotoxicology Assessment

Toxicity Data on Soil : Harmful to the soil environment.

### 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

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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  
Exposure time: 72 h

### Persistence and degradability

#### Product:

Photodegradation :

#### 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

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### **carfentrazone-ethyl (ISO):**

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: No data available

Remarks: No data available

#### **Components:**

### **carfentrazone-ethyl (ISO):**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 176  
Exposure time: 28 d  
Method: OECD Test Guideline 305E  
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 3,7 (20 °C)

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

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

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

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

### **Mobility in soil**

#### **Components:**

### **carfentrazone-ethyl (ISO):**

Distribution among environmental compartments : Koc: 866, log Koc: 2,93  
Remarks: Mobile in soils

### **Other adverse effects**

#### **Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of



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mation                      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.

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 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

UN number	:	UN 1993
Proper shipping name	:	FLAMMABLE LIQUID, N.O.S. (Solvent naphtha (petroleum), light aromatic, Carfentrazone-ethyl)
Class	:	3
Packing group	:	III
Labels	:	3

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Environmentally hazardous : yes

### IATA-DGR

UN/ID No. : UN 1993  
Proper shipping name : Flammable liquid, n.o.s.  
(Solvent naphtha (petroleum), light aromatic, Carfentrazone-ethyl)  
Class : 3  
Packing group : III  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 366  
Packing instruction (passenger aircraft) : 355

### IMDG-Code

UN number : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(Solvent naphtha (petroleum), light aromatic, Carfentrazone-ethyl)  
Class : 3  
Packing group : III  
Labels : 3  
EmS Code : F-E, S-E  
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

#### ANTT

UN number : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S.  
(Solvent naphtha (petroleum), light aromatic, Carfentrazone-ethyl)  
Class : 3  
Packing group : III  
Labels : 3  
Hazard Identification Number : 30

### 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

### 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 - : Not applicable  
(LINACH)

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

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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.  carfentrazone-ethyl (ISO)
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

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### SECTION 16. OTHER INFORMATION

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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

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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

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