

# SAFETY DATA SHEET

according to the Globally Harmonized System



## ROGOR®

Version	Revision Date:	SDS Number:	Date of last issue: -
3.1	23.01.2025	50001279	Date of first issue: 13.04.2022

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### 1. IDENTIFICATION

Product name : ROGOR®

#### Manufacturer or supplier's details

Company : FMC LATINOAMERICA S.A.

Address : (SUCURSAL BOLIVIA)  
EQUIPETROL, AV. SAN MARTÍN,  
EDIF. AMBASSADOR P-19,  
SANTA CRUZ – BOLIVIA  
+591 (3) 337-7474

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

Emergency telephone : 1 703 / 741-5970 (CHEMTREC - International)

Medical Emergency Number : CALL 800-10-6966, JAPANESE UNIVERSITY HOSPITAL  
POISON INFORMATION CENTER. SANTA CRUZ-BOLIVIA.

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

Recommended use : Can be used as insecticide only.

Restrictions on use : Use as recommended by the label.  
For professional users only.

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Flammable liquids : Category 3

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Acute toxicity (Dermal) : Category 4

Skin corrosion/irritation : Category 2

Serious eye damage/eye irritation : Category 2A

Skin sensitization : Category 1

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

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repeated exposure

Specific target organ toxicity - repeated exposure (Inhalation) : Category 2 (hearing organs)

Aspiration hazard : Category 1

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

### GHS label elements

Hazard pictograms



Signal Word : DANGER

Hazard Statements : H226 Flammable liquid and vapor.  
H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.  
H304 May be fatal if swallowed and enters airways.  
H315 + H319 Causes skin irritation and serious eye irritation.  
H317 May cause an allergic skin reaction.  
H372 Causes damage to organs (Nervous system) through prolonged or repeated exposure.  
H373 May cause damage to organs (hearing organs) through prolonged or repeated exposure if inhaled.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
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.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or with adequate ventilation.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protec-

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tion/ face protection/ hearing protection.

## Response:

P301 + P316 IF SWALLOWED: Get emergency medical help immediately.

P303 + P361 + P353 + P317 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Get medical help.

P304 + P340 + P317 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical help.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P319 Get medical help if you feel unwell.

P331 Do NOT induce vomiting.

P333 + P317 If skin irritation or rash occurs: Get medical help.

P337 + P317 If eye irritation persists: Get medical help.

P362 + P364 Take off contaminated clothing and wash it before reuse.

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

P391 Collect spillage.

## Storage:

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.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
cyclohexanone	108-94-1	>= 30 - < 50
dimethoate (ISO)	60-51-5	>= 30 - < 50
xylene	1330-20-7	>= 10 - < 20
maleic anhydride	108-31-6	>= 0,25 - < 1

## 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.

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- 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 clothes, remove clothes.  
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 : Harmful if swallowed, in contact with skin or if inhaled.  
May be fatal if swallowed and enters airways.  
Causes skin irritation and serious eye irritation.  
May cause an allergic skin reaction.  
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.  
Exposure to skin may result in mild symptoms include itching, hives or rash, and skin redness. More severe symptoms include sneezing, itchy watery eyes, and difficulty breathing.
- Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.  
First Aid responders should pay attention to self-protection and use the recommended protective clothing  
If potential for exposure exists refer to Section 8 for specific personal protective equipment.  
A specific antidote against this substance is not known. Gastric lavage and/or administration of activated charcoal can be considered.  
Avoid inhalation, ingestion and contact with skin and eyes.
- Notes to physician : Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.  
Use extinguishing measures that are appropriate to local cir-

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cumstances and the surrounding environment.

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|--|---|--|
| 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>Hydrogen cyanide<br>phosphorus oxides<br>Nitrogen oxides (NOx)<br>Carbon oxides<br>Sulfur oxides   |
| Specific extinguishing methods                 | : | Remove undamaged containers from fire area if it is safe to do so.<br>Use a water spray to cool fully closed containers.<br>Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for fire-fighters | : | Firefighters should wear protective clothing and self-contained breathing apparatus.   |

## 6. ACCIDENTAL RELEASE MEASURES

- |   |   |  |
|---|---|--|
| Personal precautions, protective equipment and emergency procedures | : | Immediately evacuate personnel to safe areas.<br>Remove all sources of ignition.<br>Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.<br>Do not touch or walk through the spilled material.<br>If it can be safely done, stop the leak.<br>Use personal protective equipment.<br>Never return spills in original containers for re-use.<br>Mark the contaminated area with signs and prevent access to unauthorized personnel.<br>Only qualified personnel equipped with suitable protective equipment may intervene.<br>For disposal considerations see section 13. |
| 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.   |

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Pick up and transfer to properly labeled containers.  
Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

- Local/Total ventilation : Ensure adequate ventilation.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.  
If the temperature of the liquid is below 29°C, which is 10°C below its flash point of 39°C, the fire and explosion hazard is considered minor. At higher temperatures the hazard gradually becomes more serious.  
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.  
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.
- 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.
- Recommended storage temperature : < 25 °C
- Further information on storage stability : Risk of crystallisation or phase separation.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
cyclohexanone	108-94-1	TWA	20 ppm	ACGIH
		STEL	50 ppm	ACGIH
xylene	1330-20-7	TWA	20 ppm	ACGIH
maleic anhydride	108-31-6	TWA (Inhalable fraction and vapor)	0,01 mg/m <sup>3</sup>	ACGIH

### Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
cyclohexanone	108-94-1	1,2-Cyclohexanediol	Urine	End of shift at end of work-week	80 mg/l	ACGIH BEI
		Cyclohexanol	Urine	End of shift (As soon as possible after exposure ceases)	8 mg/l	ACGIH BEI
dimethoate (ISO)	60-51-5	Acetylcholinesterase activity	In red blood cells	End of shift	70 % of an individual's baseline	ACGIH BEI
		Butyrylcholinesterase activity	In serum or plasma	End of shift	60 % of an individual's baseline	ACGIH BEI
xylene	1330-20-7	Methylhippuric acids	Urine	End of shift (As soon as possible after exposure ceases)	1.5 g/g creatinine	ACGIH BEI

### Personal protective equipment

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection  
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.

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| 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<br>Tightly fitting safety goggles   |
| Skin and body protection | : Impervious clothing<br>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. Always have on hand a first-aid kit, together with proper instructions.<br>The precautions mentioned relate mainly to the handling of the undiluted product and the preparation of the spray solution, but may also be recommended for spraying.<br><br>In the context of professional phytosanitary use as recommended, the end user must refer to the indications on the label. In other cases, it is recommended to use the protections above.<br>Persons working with this product for a longer period should have frequent blood tests of their cholinesterase levels. If the cholinesterase level falls below a critical point, no further exposure should be allowed until it has been determined by means of blood tests that the cholinesterase level has returned to normal<br>Remove respiratory and skin/eye protection only after vapors have been cleared from the area. |
| Hygiene measures         | : Avoid contact with skin, eyes and clothing.<br>Provide adequate ventilation.<br>Do not inhale aerosol.<br>When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday.  |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- |                |                  |
|----------------|------------------|
| Physical state | : liquid         |
| Form           | : liquid         |
| Color          | : blue           |
| Odor           | : acetone-like   |
| Odor Threshold | : not determined |



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pH	:	4,3 - 6,6 (1% solution in water)
Melting point/freezing point	:	< 10 °C
Boiling point/boiling range	:	not determined
Flash point	:	39 °C
Evaporation rate	:	No data available
Flammability (liquids)	:	Flammable
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	1,044 g/cm <sup>3</sup>
Solubility(ies)	:	
Water solubility	:	emulsifiable
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	Non-oxidizing

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Molecular weight : Not applicable

Particle size : No data available

### 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : Dimethoate is stable for a long period at temperatures not exceeding 25°C. At higher temperatures decomposition will take place and lower the quality of the product.  
Expected decomposition during storage for two months at average day and night temperature 30°C is approx. 0.35% and at average day and night temperature 25°C it is approx. 0.12%. These numbers may vary between batches due to variations in content of impurities. The reactions involve rearrangements and polymerisation.  
The self-accelerating reactions which dimethoate is capable of, do not occur at these temperatures, but at temperatures of 55 - 60°C and higher. At these temperatures the released heat can raise the temperature further and accelerate the decomposition. Above 80°C dimethoate will decompose rapidly, causing significant risk of explosion.  
It is strongly advised not to heat dimethoate above 35°C and only heat indirectly and with solvent present.

Possibility of hazardous reactions : Vapors may form explosive mixture with air.  
No decomposition if stored and applied as directed.

Conditions to avoid : Avoid extreme temperatures.  
Avoid formation of aerosol.  
Heat, flames and sparks.  
Temperatures greater than recommended storage temperature.  
Heating of the mixture may evolve harmful and irritant vapours.

Incompatible materials : Strong alkalis, amines and strong oxidising compounds. The product can corrode metals (but does not meet the criteria for classification).

Hazardous decomposition products : Stable under recommended storage conditions.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

Harmful if swallowed, in contact with skin or if inhaled.

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### **Product:**

Acute oral toxicity	: LD50(Rat): ca. 300 - 500 mg/kg Method: OECD Test Guideline 423 Symptoms: lethargy, ataxia, Tremors GLP: yes Assessment: The component/mixture is moderately toxic after single ingestion.
Acute inhalation toxicity	: LC50(Rat): > 2,1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Symptoms: incoordination Remarks: no mortality
Acute dermal toxicity	: LD50(Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Symptoms: incoordination GLP: yes Remarks: no mortality

### **Components:**

#### **cyclohexanone:**

Acute oral toxicity	: LD50 (Rat): 1.890 mg/kg
Acute inhalation toxicity	: LC50 (Rat, male and female): > 6,2 mg/l Exposure time: 4 h Test atmosphere: vapor Assessment: The component/mixture is moderately toxic after short term inhalation.

#### **dimethoate (ISO):**

Acute oral toxicity	: LD50 (Rat, male and female): 348 - 423 mg/kg Method: OECD Test Guideline 425 Symptoms: hypoactivity, Tremors  LD50 (Rat, female): 300 - 2.000 mg/kg Method: OECD Test Guideline 423 Symptoms: hypoactivity, Tremors GLP: yes Assessment: The component/mixture is moderately toxic after single ingestion.  LD50 (Mouse, male and female): 160 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	: LC50 (Rat): ca. 1,6 mg/l Exposure time: 4 h Test atmosphere: dust/mist

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

Acute dermal toxicity : LD50 (Rat, female): > 2.000 mg/kg  
Symptoms: Tremors  
Assessment: The component/mixture is minimally toxic after single contact with skin.  
Remarks: no mortality

LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The component/mixture is minimally toxic after single contact with skin.  
Remarks: no mortality

**xylene:**

Acute oral toxicity : LD50 (Rat, male): 3.523 mg/kg  
Method: Regulation (EC) No. 440/2008, Annex, B.1 bis

LD50 (Rat, female): > 4.000 mg/kg  
Method: Regulation (EC) No. 440/2008, Annex, B.1 bis

Acute inhalation toxicity : LC50 (Rat, male and female): 27,6 mg/l, 6350 ppm  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: Regulation (EC) No. 440/2008, Annex, B.2

Acute dermal toxicity : LD50 (Rabbit, male): > 4.200 mg/kg

**maleic anhydride:**

Acute oral toxicity : LD50 (Rat, male and female): 1.090 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit, female): 2.620 mg/kg

**Skin corrosion/irritation**

Causes skin irritation.

**Product:**

Species	: Rabbit
Assessment	: Not classified as irritant
Method	: OECD Test Guideline 404
Result	: Moderate skin irritation
GLP	: yes

**Components:**

**cyclohexanone:**

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

### **dimethoate (ISO):**

Species	:	Rabbit
Assessment	:	Not classified as irritant

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

### **xylene:**

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

### **maleic anhydride:**

Species	:	Rabbit
Exposure time	:	4 h
Result	:	Corrosive after 3 minutes to 1 hour of exposure

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

Causes serious eye irritation.

### **Product:**

Species	:	Rabbit
Assessment	:	Not classified as irritant
Method	:	OECD Test Guideline 405
Result	:	Moderate eye irritation
GLP	:	yes
Remarks	:	Vapors are highly irritant to the eyes and upper respiratory system.

### **Components:**

#### **cyclohexanone:**

Method	:	Hen egg chorioallantoic membrane bioassay
Result	:	Irreversible effects on the eye

#### **dimethoate (ISO):**

Species	:	Rabbit
Assessment	:	Mild eye irritation
Method	:	EPA OPP 81-4
Result	:	Mild eye irritation

Species	:	Rabbit
Assessment	:	Irritating to eyes.
Method	:	OECD Test Guideline 405

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Result : Eye irritation  
GLP : yes

### **xylene:**

Species : Rabbit  
Result : Moderate eye irritation

### **maleic anhydride:**

Species : Rabbit  
Result : Irreversible effects on the eye

## **Respiratory or skin sensitization**

### **Skin sensitization**

May cause an allergic skin reaction.

### **Respiratory sensitization**

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

### **Product:**

Test Type : Buehler Test  
Routes of exposure : Skin contact  
Species : Guinea pig  
Assessment : May cause sensitization by skin contact.  
Method : OECD Test Guideline 406  
Result : Causes sensitization.  
GLP : yes  
Remarks : Causes sensitization.  
Based on data from a similar product.

Remarks : Causes sensitization.

### **Components:**

#### **dimethoate (ISO):**

Test Type : Maximization Test  
Routes of exposure : Dermal  
Species : Guinea pig  
Assessment : Not a skin sensitizer.  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitization.  
GLP : yes

Test Type : Local lymph node test  
Assessment : Not a skin sensitizer.  
Method : OECD Test Guideline 429  
Result : Does not cause skin sensitization.

### **xylene:**

Test Type : Local lymph node assay (LLNA)

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Routes of exposure	:	Skin contact
Species	:	Mouse
Method	:	OECD Test Guideline 429
Result	:	Does not cause skin sensitization.

## **maleic anhydride:**

Test Type	:	Local lymph node assay (LLNA)
Routes of exposure	:	Dermal
Species	:	Mouse
Assessment	:	The product is a skin sensitizer, sub-category 1A.
Method	:	OECD Test Guideline 429

## **Germ cell mutagenicity**

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

### **Components:**

#### **cyclohexanone:**

Genotoxicity in vitro	:	Test Type: in vitro DNA damage and/or repair study Test system: human diploid fibroblasts Method: OECD Test Guideline 482 Result: negative  Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative  Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
Genotoxicity in vivo	:	Test Type: chromosome aberration assay Species: Rat (male and female) Application Route: inhalation (vapor) Method: OECD Test Guideline 475 Result: negative  Test Type: dominant lethal test Species: Rat (male and female) Application Route: inhalation (vapor) Method: OECD Test Guideline 478 Result: negative  Species: Drosophila melanogaster (vinegar fly) (male and female) Application Route: Inhalation Method: OECD Test Guideline 477 Result: negative
Germ cell mutagenicity - Assessment	:	Weight of evidence does not support classification as a germ cell mutagen.

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### **dimethoate (ISO):**

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: unscheduled DNA synthesis assay Species: Rat Cell type: Liver cells Result: positive  Test Type: dominant lethal test Species: Mouse Method: OECD Test Guideline 478 Result: negative GLP: yes  Test Type: Micronucleus test Species: Mouse Method: OECD Test Guideline 474 Result: negative GLP: yes  Test Type: chromosome aberration assay Species: Rat Result: negative

### **xylene:**

Genotoxicity in vitro	: Test Type: Chromosome aberration test in vitro Test system: Chinese hamster ovary cells Method: Regulation (EC) No. 440/2008, Annex, B.10 Result: negative  Test Type: sister chromatid exchange assay Test system: Chinese hamster ovary cells Result: negative
Genotoxicity in vivo	: Test Type: Rodent Dominant Lethal Assay Species: Mouse (male) Application Route: Intraperitoneal injection Method: OECD Test Guideline 478 Result: negative

### **maleic anhydride:**

Genotoxicity in vitro	: Test Type: reverse mutation assay Method: OECD Test Guideline 471 Result: negative  Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
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Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Bone marrow chromosome aberration.  
Species: Rat (male and female)  
Application Route: Inhalation  
Method: OECD Test Guideline 475  
Result: negative

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

### Carcinogenicity

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

#### Components:

##### **cyclohexanone:**

Species : Rat  
Application Route : Oral  
Exposure time : 104 weeks  
Dose : (462 and 910 mg/kg/d)  
LOAEL : 3.300 ppm  
Result : positive

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

##### **xylene:**

Species : Rat  
Application Route : Oral  
Exposure time : 103 weeks  
Result : negative

##### **maleic anhydride:**

Species : Rat, male and female  
Application Route : Oral  
Exposure time : 2 Years  
Dose : 0, 10, 32, 100 mg/kg body weight  
NOEL : 10 mg/kg body weight  
Method : OECD Test Guideline 451  
Result : negative

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

### Reproductive toxicity

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

#### Components:

##### **cyclohexanone:**

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Effects on fertility : Test Type: Two-generation study  
Species: Rat  
Application Route: inhalation (vapor)  
Dose: 1.02, 2.04, 4.1 mg/l  
General Toxicity Parent: NOAEC: 4,1 mg/l  
General Toxicity F1: NOAEC: 2,04 mg/l  
General Toxicity F2: NOAEC: 2,04 mg/l  
Result: negative

Effects on fetal development : Species: Rabbit  
Application Route: Oral  
Dose: 50, 250, 500 mg/kg b.w.  
General Toxicity Maternal: NOAEL: 250 mg/kg body weight  
Teratogenicity: NOAEL: 500 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: No teratogenic effects.

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

### dimethoate (ISO):

Effects on fertility : Test Type: Two-generation study  
Species: Rat  
Dose: 1, 15, 65 parts per million  
General Toxicity F1: LOAEL: 15 ppm  
Symptoms: Effects on mating performance  
GLP: yes

Test Type: Two-generation study  
Species: Rat  
Dose: 0.2, 1, 6.5 mg/kg bw/day  
General Toxicity Parent: NOAEL: 1 mg/kg body weight  
Early Embryonic Development: NOAEL: 6,5 mg/kg body weight  
Method: OECD Test Guideline 416  
GLP: yes

Test Type: one-generation reproductive toxicity  
Species: Rat  
Application Route: Oral  
Dose: 6.5 mg/kg bw/day  
General Toxicity Parent: LOAEL: 6,5 mg/kg bw/day  
Symptoms: Effects on mating performance  
Method: OECD Test Guideline 415  
GLP: yes

### xylene:

Effects on fertility : Test Type: Two-generation study  
Species: Rat  
Application Route: inhalation (vapor)  
General Toxicity F1: NOAEC: 2,171 mg/l  
Result: negative

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Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Pre-natal  
Species: Rat  
Application Route: inhalation (vapor)  
Symptoms: Maternal effects.  
Result: negative  
Remarks: Based on data from similar materials

### maleic anhydride:

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 0, 20, 55, and 150 milligram per kilogram  
General Toxicity Parent: LOAEL: 20 mg/kg body weight  
Fertility: NOEL: 55 mg/kg body weight  
Method: OECD Test Guideline 416  
Result: negative

Effects on fetal development : Species: Rat  
Application Route: Oral  
Duration of Single Treatment: 15 d  
General Toxicity Maternal: NOAEL:  $\geq$  140 mg/kg body weight  
Teratogenicity: NOAEL:  $\geq$  140 mg/kg body weight  
Embryo-fetal toxicity.: NOAEL:  $\geq$  140 mg/kg body weight  
Method: OECD Test Guideline 414  
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

### STOT-single exposure

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

#### Components:

##### xylene:

Assessment : May cause respiratory irritation.

### STOT-repeated exposure

Causes damage to organs (Nervous system) through prolonged or repeated exposure.  
May cause damage to organs (hearing organs) through prolonged or repeated exposure if inhaled.

#### Components:

##### cyclohexanone:

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

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### **dimethoate (ISO):**

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

### **xylene:**

Routes of exposure	: Inhalation
Target Organs	: hearing organs
Assessment	: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

### **maleic anhydride:**

Routes of exposure	: inhalation (dust/mist/fume)
Target Organs	: Respiratory system
Assessment	: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

## **Repeated dose toxicity**

### **Components:**

#### **cyclohexanone:**

Species	: Rat, male and female
NOAEL	: 143 mg/kg
Application Route	: Oral
Exposure time	: 90 d
Dose	: 40, 143 and 407 mg/kg b.w.
Method	: OECD Test Guideline 408

#### **dimethoate (ISO):**

Species	: Rat
LOAEL	: 2.5 mg/kg bw/day
Exposure time	: 90 days
Symptoms	: cholinesterase inhibition

Species	: Rat
NOAEL	: 0.06 - 0.08 mg/kg bw/day
LOAEL	: 3.22 - 3.78 mg/kg bw/day
Exposure time	: 90d
Symptoms	: cholinesterase inhibition

#### **xylene:**

Species	: Rat
NOAEC	: 3,515 mg/l
Application Route	: Inhalation
Exposure time	: 13 weeks

#### **maleic anhydride:**

Species	: Dog, male and female
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NOAEL	:	60 mg/kg
Application Route	:	Oral
Exposure time	:	90 d
Dose	:	0, 20, 40, or 60 mg/kg bw/day
Method	:	OECD Test Guideline 409
Species	:	Rat, male and female
NOEL	:	10 mg/kg
Application Route	:	Oral
Exposure time	:	2 years
Dose	:	0, 10, 32, and 100 mg/kg bw/day
Method	:	OECD Test Guideline 452
Species	:	Rat, male and female
LOAEC	:	0,0011 mg/l
Application Route	:	Inhalation
Exposure time	:	6 months
Target Organs	:	Respiratory system

### Aspiration toxicity

May be fatal if swallowed and enters airways.

### Components:

#### dimethoate (ISO):

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

#### xylene:

May be fatal if swallowed and enters airways.

### Experience with human exposure

### Components:

#### xylene:

General Information	:	Target Organs: inner ear Symptoms: hearing loss
		Target Organs: Central nervous system Symptoms: Drowsiness, Dizziness

### Further information

### Product:

Remarks	:	Solvents may degrease the skin.
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### Components:

#### dimethoate (ISO):

Remarks	:	Dimethoate is rapidly absorbed and excreted following oral
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administration. It is extensively metabolized. Dimethoate and its metabolites are primarily found in the liver and kidneys. There is no evidence for accumulation.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **cyclohexanone:**

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 527 - 732 mg/l  
Exposure time: 96 h  
Test Type: flow-through test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials
- Toxicity to algae/aquatic plants : EC50 ( Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials
- NOEC ( Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials
- Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l  
Exposure time: 30 min  
Method: OECD Test Guideline 209

##### **dimethoate (ISO):**

- Toxicity to fish : NOEC (Cyprinodon variegatus (sheepshead minnow)): 2,4 mg/l  
Test Type: Early-life Stage  
GLP: yes
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,48 - 0,66 mg/l  
Exposure time: 48 h  
Test Type: static test
- NOEC (Daphnia magna (Water flea)): 0,04 mg/l  
Exposure time: 21 d
- LC50 (Mysidopsis bahia (opossum shrimp)): 15 mg/l  
Exposure time: 96 h

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Test Type: static test  
Method: US EPA Test Guideline OPP 72-3  
GLP: yes

EC50 (Daphnia magna (Water flea)): 1,6 - 2,5 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
GLP: yes

NOEC (Crassostrea virginica (atlantic oyster)): 46 mg/l  
Exposure time: 96 h

Toxicity to algae/aquatic plants : EC50 ( Selenastrum capricornutum (green algae)): 117 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC50 ( Pseudokirchneriella subcapitata (algae)): > 95 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

EC50 ( Navicula pelliculosa (Diatom)): > 98 mg/l  
Exposure time: 72 h  
Method: US EPA Test Guideline OPPTS 850.5400  
GLP: yes

NOEC ( Lemna gibba (duckweed)): 41,5 mg/l  
Exposure time: 7 d  
Test Type: Static renewal test  
Method: OECD Test Guideline 221  
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC: 0,4 mg/l  
Exposure time: 21 d  
Species: Oncorhynchus mykiss (rainbow trout)

NOEC: 2,4 mg/l  
Species: Cyprinodon variegatus (sheepshead minnow)  
Test Type: Early-life Stage  
GLP: yes

NOEC: 1,25 mg/l  
Species: Oncorhynchus mykiss (rainbow trout)  
Test Type: Early Life-Stage  
Method: OECD Test Guideline 210  
GLP: yes

LOEC: 96 mg/l

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		Exposure time: 21 d Species: Pimephales promelas (fathead minnow) Method: OECD Test Guideline 229 GLP: yes
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,04 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea)  NOEC: 0,14 mg/l Exposure time: 32 d Species: Americamysis bahia (mysid shrimp) Test Type: flow-through test GLP: yes
M-Factor (Chronic aquatic toxicity)	:	1
Toxicity to soil dwelling organisms	:	LC50: 31 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207 GLP: yes  NOEC: 2,87 mg/kg Exposure time: 28 d End point: reproduction Species: Eisenia fetida (earthworms) GLP: yes
Toxicity to terrestrial organisms	:	LD50: 44 mg/kg End point: Acute oral toxicity Species: Anas platyrhynchos (Mallard duck) Method: US EPA Test Guideline OPPTS 850.2100  NOEC: 35,4 ppm End point: Reproduction Test Species: Anas platyrhynchos (Mallard duck) Method: OECD Test Guideline 206 GLP: yes  LD50: 17,3 mg/kg End point: Acute oral toxicity Species: Colinus virginianus (Bobwhite quail) Method: EPA OPP 71-2 (Avian Dietary Toxicity Test) GLP: yes  NOEC: 10,1 ppm End point: Reproduction Test Species: Colinus virginianus (Bobwhite quail) Method: OECD Test Guideline 206 GLP: yes



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LD50: 12 µg/bee  
End point: Acute contact toxicity  
Species: Apis mellifera (bees)  
Method: OECD Test Guideline 214  
GLP: yes

LD50: 4 µg/bee  
End point: Acute oral toxicity  
Species: Apis mellifera (bees)  
Method: OECD Test Guideline 213  
GLP: yes

### **xylene:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2,6 mg/l  
Exposure time: 96 h  
Test Type: Static renewal test  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 ( Pseudokirchneriella subcapitata (green algae)): 2,2 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

NOEC ( Pseudokirchneriella subcapitata (green algae)): 0,44 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to microorganisms : NOEC (activated sludge): 16 mg/l  
Exposure time: 28 h  
Method: OECD Test Guideline 301F

Toxicity to fish (Chronic toxicity) : NOEC: > 1,3 mg/l  
Exposure time: 56 d  
Species: Oncorhynchus mykiss (rainbow trout)  
Test Type: flow-through test  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,96 mg/l  
Exposure time: 7 d  
Species: Ceriodaphnia dubia (water flea)  
Remarks: Based on data from similar materials

Toxicity to soil dwelling organisms : NOEC: 16 mg/kg  
Exposure time: 14 d  
Species: Eisenia fetida (earthworms)  
Remarks: Based on data from similar materials

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### maleic anhydride:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 42,81 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC10 ( Pseudokirchneriella subcapitata (green algae)): 11,8 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

EC50 ( Pseudokirchneriella subcapitata (green algae)): 74,35 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC10 (Pseudomonas putida): 44,6 mg/l  
Exposure time: 18 h  
Method: DIN 38 412 Part 8

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

### Persistence and degradability

#### Components:

#### cyclohexanone:

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301F

#### dimethoate (ISO):

Biodegradability : Result: Not readily biodegradable.

#### xylene:

Biodegradability : aerobic  
Inoculum: activated sludge, non-adapted  
Concentration: 16 mg/l  
Result: Readily biodegradable.  
Biodegradation: 98 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

aerobic  
Inoculum: activated sludge, non-adapted

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Concentration: 16 mg/l  
Result: Readily biodegradable.  
Biodegradation: 94 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

aerobic  
Inoculum: activated sludge, non-adapted  
Concentration: 16,2 mg/l  
Result: Readily biodegradable.  
Biodegradation: 90 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
Remarks: Based on data from similar materials

## **maleic anhydride:**

Biodegradability : Inoculum: activated sludge, non-adapted  
Result: Readily biodegradable.  
Biodegradation: > 90 %  
Exposure time: 25 d  
Method: OECD Test Guideline 301B  
Remarks: Based on data from similar materials

## **Bioaccumulative potential**

### **Product:**

Bioaccumulation : Remarks: No data available  
Remarks: No data available

### **Components:**

#### **cyclohexanone:**

Partition coefficient: n-octanol/water : log Pow: 0,86 (25 °C)

#### **dimethoate (ISO):**

Bioaccumulation : Species: Salmo gairdneri  
Bioconcentration factor (BCF): > 1.000  
Remarks: The product/substance has a potential to bioaccumulate.  
See section 9 for octanol-water partition coefficient.

Partition coefficient: n-octanol/water : Pow: 5,7 (20 °C)  
log Pow: 0,75 (20 °C)  
Method: OECD Test Guideline 107

#### **xylene:**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)

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Exposure time: 7 d  
Concentration: 1,3 mg/l  
Bioconcentration factor (BCF): > 4,9  
Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : log Pow: 3,2 (20 °C)  
pH: 7  
Remarks: Based on data from similar materials

log Pow: 3,12 (20 °C)  
pH: 7  
Remarks: Based on data from similar materials

log Pow: 3,15 (20 °C)  
pH: 7  
Remarks: Based on data from similar materials

log Pow: 3,15 (20 °C)  
pH: 7  
Remarks: Based on data from similar materials

### maleic anhydride:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -2,61

### Mobility in soil

#### Components:

#### dimethoate (ISO):

Distribution among environmental compartments : Remarks: Highly mobile in soils

Stability in soil : Remarks: Not expected to adsorb on soil.

### Other adverse effects

#### Product:

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.

#### Components:

#### dimethoate (ISO):

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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### 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 containers. Rinsable containers: Triple rinse containers of less than 20 liters and pressure rinse containers of 20 liters or more. Triple rinsing: Add water up to ¼ of the container's capacity, close and shake for 30 seconds. Pour the rinse water into the mixing tank, considering this volume of water within the recommended volume for mixing preparation. Perform this procedure three times. Pressure rinsing: Activate the pressure rinsing device for 30 seconds, considering the volume of water used as part of the recommended volume for mixing preparation. In both procedures, punctured the container on its base without damaging the label. In all cases, take the empty containers to collection points indicated by the local empty containers program.

### 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

- UN number : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S. (Cyclohexanone, Xylene, Dimethoate)

- Class : 3  
Packing group : III  
Labels : 3  
Environmentally hazardous : yes

##### IATA-DGR

- UN/ID No. : UN 1993  
Proper shipping name : FLAMMABLE LIQUID, N.O.S. (Cyclohexanone, Xylene, Dimethoate)

- Class : 3  
Packing group : III  
Labels : Flammable Liquids  
Packing instruction (cargo aircraft) : 366  
Packing instruction (passenger aircraft) : 355

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Environmentally hazardous : yes

## IMDG-Code

UN number	: UN 1993
Proper shipping name	: FLAMMABLE LIQUID, N.O.S. (Cyclohexanone, Xylene, Dimethoate)
Class	: 3
Packing group	: III
Labels	: 3
EmS Code	: F-E, <u>S-E</u>
Marine pollutant	: yes

## Transport in bulk according to IMO instruments

Not applicable for product as supplied.

## 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.

## 15. REGULATORY INFORMATION

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

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

TCSI	: Not in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
AIIC	: Not in compliance with the inventory
DSL	: This product contains the following components that are not on the Canadian DSL nor NDSL.  alkoxylated short fatty alcohol dimethoate (ISO)
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
TECI	: Not in compliance with the inventory

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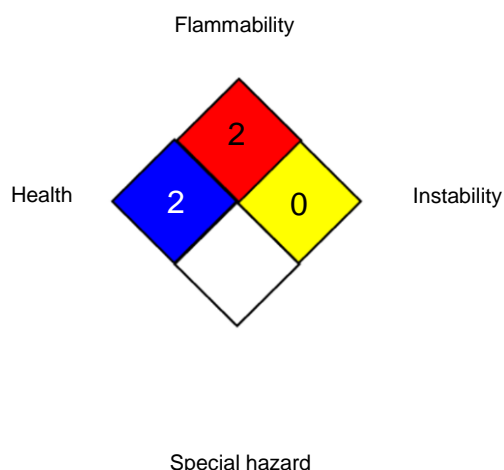
## 16. OTHER INFORMATION

Revision Date : 23.01.2025

Date format : dd.mm.yyyy

### Further information

#### NFPA:



#### HMIS® IV:

HEALTH	*	3
FLAMMABILITY		2
PHYSICAL HAZARD		0

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

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / STEL : Short-term exposure limit

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

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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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