

# SAFETY DATA SHEET

## SINERGE® EC



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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : SINERGE® 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 (Inhalation) : Category 4

Acute toxicity (Dermal) : Category 5

Serious eye damage/eye irritation : Category 1

Carcinogenicity : Category 2

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

Aspiration hazard : Category 1

Short-term (acute) aquatic hazard : Category 1

Long-term (chronic) aquatic hazard : Category 1

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### 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.  
H318 Causes serious eye damage.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.  
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.  
P261 Avoid breathing 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.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P308 + P313 IF exposed or concerned: Get medical advice/

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attention.  
P331 Do NOT induce vomiting.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.  
P391 Collect spillage.

### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

### Disposal:

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

### 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)
ametryn (ISO)	834-12-8	Acute Tox. (Oral), 4 Acute Tox. (Dermal), 5 Aquatic Acute, 1 Aquatic Chronic, 1	>= 25 -< 30
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	>= 25 -< 30
clomazone (ISO)	81777-89-1	Acute Tox. (Oral), 4 Acute Tox. (Dermal), 5 Aquatic Acute, 1 Aquatic Chronic, 1	>= 10 -< 20
Reaction mass of N,N-dimethyldecan-1-amide and	Not Assigned	Acute Tox. (Oral), 5 Acute Tox. (Inhalation), 5	>= 10 -< 20

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N,N-dimethyloctanamide		tion), 4 Acute Tox. (Dermal), 5 Skin corrosion/irritation, 2 Serious eye damage/eye irritation, 1 STOT SE, (Respiratory system) , 3 Aquatic Acute, 2	
calcium dodecylbenzenesulphonate (alternate CAS 68584-23-6)	26264-06-2	Acute Tox. (Oral), 4 Skin corrosion/irritation, 2 Serious eye damage/eye irritation, 1 Aquatic Acute, 2	$\geq 2,5 < 3$
2-methylpropan-1-ol	78-83-1	Flam. Liq., 3 Acute Tox. (Oral), 5 Acute Tox. (Dermal), 5 Skin corrosion/irritation, 2 Serious eye damage/eye irritation, 1 STOT SE, (Respiratory system, Central nervous system) , 3	$\geq 1 < 3$

### SECTION 4. FIRST AID MEASURES

- General advice : Move out of dangerous area.  
Consult a physician.  
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 : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.

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- 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.  
Causes serious eye damage.  
Harmful if inhaled.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
Suspected of causing cancer.
- Protection of first-aiders : Avoid inhalation, ingestion and contact with skin and eyes.
- Notes to physician : Treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Dry chemical, CO<sub>2</sub>, water spray or regular foam.
- 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.  
Carbon oxides  
Hazardous combustion products  
Chlorine compounds  
Nitrogen oxides (NO<sub>x</sub>)  
Sulfur oxides
- Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.  
Use a water spray to cool fully closed containers.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for fire-fighters : Firefighters should wear protective clothing and self-contained breathing apparatus.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.  
If it can be safely done, stop the leak.  
Do not touch or walk through the spilled material.
- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Never return spills in original containers for re-use.  
Collect as much of the spill as possible with a suitable absorbent material.  
Pick up and transfer to properly labeled containers.  
Keep in suitable, closed containers for disposal.

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**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).  
Keep away from open flames, hot surfaces and sources of ignition.
- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapors/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
To avoid spills during handling keep bottle on a metal tray.  
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.

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Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ametryn (ISO)	834-12-8	TWA (Inhalable particulate matter)	2 mg/m <sup>3</sup>	ACGIH
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified	64742-95-6	TWA	200 mg/m <sup>3</sup> (total hydrocarbon vapor)	ACGIH
2-methylpropan-1-ol	78-83-1	LT	40 ppm 115 mg/m <sup>3</sup>	BR OEL
		Further information: Degree of harmfulness: medium		
		TWA	50 ppm	ACGIH

#### Personal protective equipment

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

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  
Wear face-shield and protective suit for abnormal processing problems.

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

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Odor	:	characteristic
Odor Threshold	:	No data available
pH	:	7,37 (25 °C) Concentration: 10 g/l
Melting point/ range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	42°C
Evaporation rate	:	No data available
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
Density	:	1,0194 g/cm <sup>3</sup> (20 °C)
Solubility(ies)		
Water solubility	:	Miscible
Solubility in other solvents	:	completely miscible Solvent: Toluene
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	23 mPa.s ( 20 °C) Method: OECD Test Guideline 114  12 mPa.s ( 40 °C) Method: OECD Test Guideline 114
Viscosity, kinematic	:	No data available



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Explosive properties	: Not explosive
Oxidizing properties	: Non-oxidizing
Surface tension	: 30,9 mN/m, 20 °C, ISO 304
Molecular weight	: Not applicable

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### SECTION 10. STABILITY AND REACTIVITY

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

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### SECTION 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

May be harmful if swallowed or in contact with skin.  
Harmful if inhaled.

#### Product:

Acute oral toxicity	: LD50 (Rat, female): 2.000 - 5.000 mg/kg Method: OECD Test Guideline 423 Symptoms: ataxia, Convulsions, Tremors Assessment: The component/mixture is minimally toxic after single ingestion.
Acute inhalation toxicity	: LC50 (Rat): > 1,517 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Symptoms: Fatality, Breathing difficulties
Acute dermal toxicity	: LD50 (Rat): > 4.000 mg/kg

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**Components:****ametryn (ISO):**

- Acute oral toxicity : LD50 Oral (Rat, female): 1.360 mg/kg  
Method: OECD Test Guideline 425  
Symptoms: Fatality, Necrosis
- Acute inhalation toxicity : LC0 (Rat, male and female): > 2,22 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Remarks: no mortality
- Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402

**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 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.

**clomazone (ISO):**

- Acute oral toxicity : LD50 (Rat, female): 768 mg/kg  
Method: OECD Test Guideline 425
- LD50 (Rat, female): 300 - 2.000 mg/kg  
Method: OECD Test Guideline 423  
Target Organs: Liver  
Assessment: The component/mixture is moderately toxic after single ingestion.
- LD50 (Rat, female): 1.564 mg/kg  
Symptoms: ataxia
- Acute inhalation toxicity : LC50 (Rat, male and female): > 12,1 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

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Symptoms: apathy  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: no mortality

LC50 (Rat): > 7,4 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): > 2.000 mg/kg  
Method: US EPA Test Guideline OPP 81-2  
Assessment: The component/mixture is minimally toxic after single contact with skin.  
Remarks: no mortality

LD50 (Rabbit, male and female): > 4.000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: no mortality

**Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:**

Acute oral toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 3,551 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rat, male and female): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Remarks: Based on data from similar materials

**calcium dodecylbenzenesulphonate:**

Acute oral toxicity : LD50 (Rat, male and female): 1.300 mg/kg  
Remarks: Based on data from similar materials

Acute inhalation toxicity : Remarks: Not classified

Acute dermal toxicity : LD50 (Rat, male and female): > 2000 milligram per kilogram  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity  
Remarks: Based on data from similar materials

**2-methylpropan-1-ol:**

Acute oral toxicity : LD50 (Rat): 3.350 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 18,18 mg/l  
Exposure time: 6 h  
Test atmosphere: vapor

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Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): 2.460 mg/kg

### Skin corrosion/irritation

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

#### Product:

Result : No skin irritation

Remarks : Extremely corrosive and destructive to tissue.

#### Components:

##### **ametryn (ISO):**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

##### **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.

##### **clomazone (ISO):**

Species : Rabbit  
Assessment : Not classified as irritant  
Method : OECD Test Guideline 404  
Result : slight or no skin irritation.

##### **Reaction mass of N,N-dimethyldodecan-1-amide and N,N-dimethyloctanamide:**

Species : Rabbit  
Method : Regulation (EC) No. 440/2008, Annex, B.4  
Result : Skin irritation

##### **calcium dodecylbenzenesulphonate:**

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

##### **2-methylpropan-1-ol:**

Species : Rabbit  
Result : Skin irritation

### Serious eye damage/eye irritation

Causes serious eye damage.

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### **Product:**

Species	: Rabbit
Result	: Irreversible effects on the eye
Method	: OECD Test Guideline 405
Remarks	: May cause irreversible eye damage.

### **Components:**

#### **ametryn (ISO):**

Species	: Rabbit
Result	: No eye irritation
Method	: OECD Test Guideline 405

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

Species	: Rabbit
Result	: No eye irritation
Assessment	: Irritating to eyes.

#### **clomazone (ISO):**

Species	: Rabbit
Result	: Slight or no eye irritation
Assessment	: Not classified as irritant
Method	: OECD Test Guideline 405
GLP	: yes

#### **Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:**

Species	: Rabbit
Result	: Irreversible effects on the eye
Method	: OECD Test Guideline 405

#### **calcium dodecylbenzenesulphonate:**

Species	: Rabbit
Result	: Irreversible effects on the eye
Method	: OECD Test Guideline 405
Remarks	: Based on data from similar materials
Species	: Rabbit
Result	: Irreversible effects on the eye
Method	: OECD Test Guideline 405

#### **2-methylpropan-1-ol:**

Species	: Rabbit
Result	: Irreversible effects on the eye

### **Respiratory or skin sensitization**

#### **Skin sensitization**

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

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**Respiratory sensitization**

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

**Product:**

Routes of exposure	:	Dermal
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Does not cause skin sensitization.

**Components:****ametryn (ISO):**

Test Type	:	Maximization Test
Species	:	Guinea pig
Result	:	Does not cause skin sensitization.

**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.

**clomazone (ISO):**

Test Type	:	Buehler Test
Species	:	Guinea pig
Assessment	:	Not a skin sensitizer.
Method	:	OECD Test Guideline 406
Result	:	Not a skin sensitizer.
GLP	:	yes

Species	:	Guinea pig
Assessment	:	Not a skin sensitizer.
Method	:	US EPA Test Guideline OPP 81-6
Result	:	Not a skin sensitizer.

**Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:**

Test Type	:	Buehler Test
Species	:	Guinea pig
Result	:	Did not cause sensitization on laboratory animals.

**calcium dodecylbenzenesulphonate:**

Test Type	:	Maximization Test
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	Not a skin sensitizer.
Remarks	:	Based on data from similar materials

**2-methylpropan-1-ol:**

Routes of exposure	:	Skin contact
Result	:	Not a skin sensitizer.

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**Germ cell mutagenicity**

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

**Product:**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

**Components:****ametryn (ISO):**

Genotoxicity in vitro : Test Type: reverse mutation assay  
Method: OECD Test Guideline 471  
Result: negative

Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: equivocal

Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

Genotoxicity in vivo : Test Type: unscheduled DNA synthesis assay  
Species: Rat (male)  
Application Route: Oral  
Method: OECD Test Guideline 486  
Result: negative

Test Type: Micronucleus test  
Species: Mouse (male and female)  
Application Route: Intraperitoneal injection  
Method: OECD Test Guideline 474  
Result: negative

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

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

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

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

**clomazone (ISO):**

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Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative  
GLP: yes

Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Result: negative

Genotoxicity in vivo : Test Type: Cytogenetic assay  
Species: Rat  
Method: OECD Test Guideline 473  
Result: negative

### Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative

### calcium dodecylbenzenesulphonate:

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: chromosome aberration assay  
Species: Rat (male and female)  
Application Route: Oral  
Exposure time: 90 d  
Result: negative  
Remarks: Based on data from similar materials

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

### 2-methylpropan-1-ol:

Genotoxicity in vitro : Result: negative

Genotoxicity in vivo : Result: negative

### Carcinogenicity

Suspected of causing cancer.

### Components:

#### ametryn (ISO):

Species : Rat, male and female  
Application Route : Oral  
Exposure time : 24 month(s)  
Dose : 75, 280, and 1000 ppm



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Method	: 75 ppm
Result	: OECD Test Guideline 453
	: negative

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

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

### **clomazone (ISO):**

Species	: Rat, male and female
Application Route	: Oral
Exposure time	: 2 Years
Result	: negative

Species	: Mouse
Method	: OECD Test Guideline 453
Result	: negative

### **calcium dodecylbenzenesulphonate:**

Species	: Rat, male and female
Application Route	: Oral
Exposure time	: 720 d
NOAEL	: 250 mg/kg body weight
Result	: negative
Remarks	: Based on data from similar materials

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:**

#### **ametryn (ISO):**

Effects on fertility	: Test Type: Two-generation study
	Species: Rat, male and female
	Application Route: Oral
	Dose: 75, 300, 1200 mg/l
	General Toxicity Parent: NOEL: 75 mg/l
	Method: OECD Test Guideline 416
	Result: negative

Effects on fetal development	: Species: Rabbit
	Application Route: Oral
	Dose: 10, 30, 60mg/kg bw
	General Toxicity Maternal: NOEL: 30 mg/kg bw/day
	Embryo-fetal toxicity.: NOEL: 60 mg/kg bw/day
	Method: OECD Test Guideline 414
	Result: negative

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

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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.

**clomazone (ISO):**

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Result: negative

Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Oral  
Symptoms: Maternal effects.  
Result: negative

Test Type: Embryo-fetal development  
Species: Rabbit  
Application Route: Oral  
Symptoms: Maternal effects.  
Result: negative

**Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:**

Effects on fetal development : Test Type: Pre-natal  
Species: Rat  
Application Route: Ingestion  
General Toxicity Maternal: NOAEL: 50 - < 150 mg/kg bw/day  
Teratogenicity: NOAEL: 450 mg/kg bw/day  
Embryo-fetal toxicity.: NOAEL: 150 - < 450 mg/kg bw/day  
Method: OECD Test Guideline 414

**calcium dodecylbenzenesulphonate:**

Effects on fertility : Test Type: Fertility/early embryonic development  
Species: Rat, male and female  
Application Route: Ingestion  
General Toxicity Parent: NOAEL: 400 mg/kg body weight  
Method: OECD Test Guideline 422  
Result: negative

Effects on fetal development : Test Type: reproductive and developmental toxicity study  
Species: Rat  
Application Route: Ingestion  
General Toxicity Maternal: NOAEL: 300 mg/kg body weight  
Developmental Toxicity: NOAEL: 600 mg/kg body weight  
Method: OECD Test Guideline 422

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Result: negative

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

### 2-methylpropan-1-ol:

Effects on fertility : Species: Rat  
Application Route: Inhalation  
Fertility: NOAEC Mating/Fertility: 7,5 mg/l

### 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.

#### Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Assessment : May cause respiratory irritation.

### 2-methylpropan-1-ol:

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

### STOT-repeated exposure

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

#### 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.

### Repeated dose toxicity

#### Components:

#### ametryn (ISO):

Species : Rat, male  
NOEL : 3,8 mg/kg, 75 ppm  
Application Route : Oral  
Exposure time : 24 months  
Dose : 75, 280, and 1000 ppm  
Method : OECD Test Guideline 453

Species : Rat, male  
NOEL : 7,4 mg/kg, 100 ppm  
Application Route : Oral - feed  
Exposure time : 90 d

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Method : OECD Test Guideline 408  
Target Organs : spleen, Blood

Species : Rabbit, male and female  
NOEL : 100 mg/kg  
Application Route : Dermal  
Exposure time : 21d  
Dose : 0, 10, 100, 1000mg/kg

### **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

### **clomazone (ISO):**

Species : Rat, male and female  
NOEL : 1000 ppm  
Application Route : Oral  
Exposure time : 90 days  
Symptoms : increased liver weight

Species : Rat  
LOAEL : 400 mg/kg  
Exposure time : 90 d  
Method : OECD Test Guideline 408  
Symptoms : Liver effects

### **Reaction mass of N,N-dimethyldodecan-1-amide and N,N-dimethyloctanamide:**

Species : Dog  
NOAEL : 40 - < 200 mg/kg  
Application Route : Ingestion  
Exposure time : 90 d  
Method : OECD Test Guideline 409

### **calcium dodecylbenzenesulphonate:**

Species : Rat, male and female  
NOAEL : 85 mg/kg  
LOAEL : 145 mg/kg  
Application Route : Oral  
Exposure time : 9 Months  
Remarks : Based on data from similar materials

Species : Rat, male  
LOAEL : 286 mg/kg  
Application Route : Skin contact

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Exposure time	: 15 Days
Remarks	: Based on data from similar materials
Species	: Rat, male and female
NOAEL	: 100 mg/kg bw/day
LOAEL	: 200 mg/kg bw/day
Application Route	: Oral - gavage
Exposure time	: 28 - 54 Days
Method	: OECD Test Guideline 422
Remarks	: Based on data from similar materials

### 2-methylpropan-1-ol:

Species	: Rat
	: 1450 mg/kg
Application Route	: Oral
Species	: Rat
	: 7,5 mg/l
Application Route	: Inhalation

### 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.

#### **clomazone (ISO):**

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

### 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.
---------	---

### Components:

#### **clomazone (ISO):**

Remarks	: When fed to animals, clomazone caused decreased activity, tearing eyes, bleeding from the nose and incoordination.
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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

- |   |   |  |
|---|---|--|
| Toxicity to fish                                    | : | LC50 (Danio rerio (zebra fish)): 19,03 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203  |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia sp. (Water flea)): 13,2 mg/l<br>End point: Immobilization<br>Method: OECD Test Guideline 202   |
| Toxicity to algae/aquatic plants                    | : | EC50 (Selenastrum capricornutum (green algae)): 0,0228 mg/l<br>Exposure time: 96 h   |
| Toxicity to soil dwelling organisms                 | : | Method: OECD Test Guideline 216<br>Remarks: No significant adverse effect on Nitrogen mineralization.<br><br>Method: OECD Test Guideline 217<br>Remarks: No significant adverse effect on Carbon mineralization. |
| Toxicity to terrestrial organisms                   | : | LD50 (Apis mellifera L.): 429,65 µg/bee<br>Exposure time: 48 h<br>End point: Acute contact toxicity<br>Method: OECD Test Guideline 214   |

**Ecotoxicology Assessment**

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

**Components:****ametryn (ISO):**

- |   |   |   |
|---|---|---|
| Toxicity to fish                                    | : | LC50 (Oncorhynchus mykiss (rainbow trout)): 3,6 mg/l<br>Exposure time: 96 h<br>Method: EPA OPP 72-1   |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 15 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202  |
| Toxicity to algae/aquatic plants                    | : | EC50 (Desmodesmus subspicatus (green algae)): 0,003 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br><br>NOEC (Desmodesmus subspicatus (green algae)): 0,001 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br><br>EC50 (Pseudokirchneriella subcapitata (algae)): 3,67 µg/l |

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Exposure time: 7 d  
Test Type: static test

NOEC (*Pseudokirchneriella subcapitata* (algae)): 1,14 µg/l  
Exposure time: 7 d  
Test Type: static test

M-Factor (Acute aquatic toxicity) : 100

Toxicity to fish (Chronic toxicity) : NOEC (*Pimephales promelas* (fathead minnow)): 0,7 mg/l  
Exposure time: 35 d  
Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50 (*Daphnia magna* (Water flea)): > 1,4 mg/l  
Exposure time: 21 d  
Test Type: flow-through test

M-Factor (Chronic aquatic toxicity) : 100

Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Toxicity to soil dwelling organisms : NOEC (*Eisenia fetida* (earthworms)): 37 mg/kg  
Exposure time: 14 d  
Method: OECD Test Guideline 207

Toxicity to terrestrial organisms : LD50 (*Apis mellifera* (bees)): > 100 µg/bee  
Exposure time: 48 h  
Method: OECD Test Guideline 214

LD50 (*Coturnix japonica* (Japanese quail)): 1.040 mg/kg  
Exposure time: 14 d  
Method: OECD Test Guideline 223

NOEC (*Colinus virginianus* (Bobwhite quail)): 1.780 ppm  
Exposure time: 5 d  
Method: OECD Test Guideline 205

### **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 : EL50 (*Daphnia magna* (Water flea)): 4,5 mg/l

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|--|---|--|
| aquatic invertebrates  |   | Exposure time: 48 h<br>Test Type: static test<br>Method: OECD Test Guideline 202<br>Remarks: Based on data from similar materials  |
| Toxicity to algae/aquatic plants                                       | : | EL50 ( <i>Pseudokirchneriella subcapitata</i> (microalgae)): 3,1 mg/l<br>Exposure time: 72 h<br>Test Type: static test<br>Method: OECD Test Guideline 201<br>Remarks: Based on data from similar materials                             |
| Toxicity to fish (Chronic toxicity)                                    | : | NOELR ( <i>Pimephales promelas</i> (fathead minnow)): 2,6 mg/l<br>Exposure time: 14 d<br>Method: OECD Test Guideline 204<br>Remarks: Based on data from similar materials  |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOELR ( <i>Daphnia magna</i> (Water flea)): 2,6 mg/l<br>Exposure time: 21 d<br>Method: OECD Test Guideline 211   |
| Toxicity to microorganisms   | : | EC50 ( <i>Tetrahymena pyriformis</i> ): 15,41 mg/l<br>Exposure time: 40 h<br>Test Type: Growth inhibition<br>Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc. |

### Ecotoxicology Assessment

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

### clomazone (ISO):

- |   |   |   |
|---|---|---|
| Toxicity to fish                                    | : | LC50 ( <i>Menidia beryllina</i> (Silverside)): 6,3 mg/l<br>Exposure time: 96 h<br><br>LC50 ( <i>Oncorhynchus mykiss</i> (rainbow trout)): > 45 mg/l<br>Exposure time: 96 h<br><br>LC50 ( <i>Lepomis macrochirus</i> (Bluegill sunfish)): 34 mg/l<br>Exposure time: 96 h   |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 ( <i>Daphnia magna</i> (Water flea)): 40,8 mg/l<br>Exposure time: 48 h<br><br>EC50 ( <i>Daphnia</i> ): 5,2 mg/l<br>Exposure time: 48 h<br><br>EC50 ( <i>Daphnia magna</i> (Water flea)): 12,7 mg/l<br>Exposure time: 48 h<br>Test Type: static test<br><br>EC50 ( <i>Mysidopsis bahia</i> (opossum shrimp)): 9,8 mg/l<br>Exposure time: 48 h |



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		LC50 (Americamysis bahia (mysid shrimp)): 0,57 mg/l Exposure time: 96 h Test Type: flow-through test
Toxicity to algae/aquatic plants	:	EbC50 (Selenastrum capricornutum (green algae)): 2 mg/l Exposure time: 72 h  ErC50 (Selenastrum capricornutum (green algae)): 4,1 mg/l Exposure time: 72 h  ErC50 (Navicula pelliculosa (Freshwater diatom)): 0,136 mg/l Exposure time: 120 h  EC50 (Lemna gibba (duckweed)): 13,9 mg/l Exposure time: 7 d  NOEC (Navicula pelliculosa (Freshwater diatom)): 0,05 mg/l End point: Growth rate Exposure time: 120 h  NOEC (algae): 0,05 mg/l Exposure time: 96 h  EC50 (Lemna gibba (duckweed)): 13,9 mg/l Exposure time: 7 d  EC50 (algae): 0,136 mg/l Exposure time: 72 h
M-Factor (Acute aquatic toxicity)	:	1
Toxicity to fish (Chronic toxicity)	:	NOEC (Oncorhynchus mykiss (rainbow trout)): 2,3 mg/l Exposure time: 21 d Test Type: flow-through test  NOEC (Oncorhynchus mykiss (rainbow trout)): 2,29 mg/l Exposure time: 57 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 2,2 mg/l Exposure time: 21 d  NOEC (Americamysis bahia (mysid shrimp)): 0,032 mg/l Exposure time: 28 d Test Type: flow-through test  NOEC (Daphnia magna (Water flea)): 1,25 mg/l Exposure time: 21 d Test Type: static test
M-Factor (Chronic aquatic toxicity)	:	1

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Toxicity to soil dwelling organisms	:	LC50 ( <i>Eisenia fetida</i> (earthworms)): 391,2 mg/kg Exposure time: 14 d
Toxicity to terrestrial organisms	:	LD50 ( <i>Anas platyrhynchos</i> (Mallard duck)): > 2.510 mg/kg  LC50 ( <i>Anas platyrhynchos</i> (Mallard duck)): > 5620 ppm Remarks: Dietary  LD50 ( <i>Coturnix japonica</i> (Japanese quail)): > 2000  NOEC ( <i>Colinus virginianus</i> ): 94 mg/kg End point: Reproduction Test  LC50 ( <i>Apis mellifera</i> (bees)): > 85.29  LC50 ( <i>Apis mellifera</i> (bees)): > 100 Remarks: Contact

**Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:**

Toxicity to fish	:	LC50 ( <i>Danio rerio</i> (zebra fish)): 14,8 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 ( <i>Daphnia magna</i> (Water flea)): 7,7 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 ( <i>Pseudokirchneriella subcapitata</i> (green algae)): 5,47 mg/l Exposure time: 72 h Method: OECD Test Guideline 201  EC10 ( <i>Pseudokirchneriella subcapitata</i> (green algae)): 4,17 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	EC10 ( <i>Daphnia magna</i> (Water flea)): 1,3 mg/l Exposure time: 21 d Method: OECD Test Guideline 211

**calcium dodecylbenzenesulphonate:**

Toxicity to fish	:	LC50 ( <i>Danio rerio</i> (zebra fish)): 10 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials  LC50 ( <i>Pimephales promelas</i> (fathead minnow)): 4,6 mg/l Exposure time: 96 h Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	:	EC50 ( <i>Daphnia magna</i> (Water flea)): 3,5 mg/l Exposure time: 48 h Method: OECD Test Guideline 202

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Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 7,9 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

EC50 (Pseudokirchneriella subcapitata (green algae)): 65,4 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 1,65 mg/l  
Exposure time: 21 d  
Remarks: Based on data from similar materials

NOEC (Daphnia magna (Water flea)): 1,18 mg/l  
Exposure time: 21 d  
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 (activated sludge): 500 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): 1.000 mg/kg  
Exposure time: 14 d  
Method: OECD Test Guideline 207

Toxicity to terrestrial organisms : LD50 (Colinus virginianus (Bobwhite quail)): 1.356 mg/kg  
Exposure time: 14 d  
Method: OECD Test Guideline 223

### 2-methylpropan-1-ol:

Toxicity to fish : LC50 : 1.430 mg/l  
Exposure time: 4 d

Toxicity to daphnia and other aquatic invertebrates : EC50: 1.100 mg/l  
Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 20 mg/l  
Exposure time: 21 d

Toxicity to microorganisms : EC50 (Anabaena flos-aquae (cyanobacterium)): 593 - 1.799 mg/l  
Exposure time: 72 h

IC50 (Natural microorganism): 1.000 mg/l  
Exposure time: 16 h

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**Persistence and degradability****Components:****ametryn (ISO):**

Biodegradability : Inoculum: activated sludge  
Result: Not readily biodegradable.  
Method: OECD Test Guideline 301B

**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

**clomazone (ISO):**

Biodegradability : Result: Not readily biodegradable.  
Remarks: Substance/product is moderately persistent in the environment.  
Primary degradation half-lives vary with circumstances, from a few weeks to a few months in aerobic soil and water.

**Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 63,63 %  
Exposure time: 29 d  
Method: OECD Test Guideline 302B

**calcium dodecylbenzenesulphonate:**

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

**2-methylpropan-1-ol:**

Biodegradability : Result: Readily biodegradable.

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: No data available

**Components:****ametryn (ISO):**

Bioaccumulation : Species: *Lepomis macrochirus* (Bluegill sunfish)  
Bioconcentration factor (BCF): 110

Partition coefficient: n-octanol/water : log Pow: 3

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### **clomazone (ISO):**

Bioaccumulation	:	Bioconcentration factor (BCF): 27 - 40 Remarks: Low potential for bioaccumulation
Partition coefficient: n-octanol/water	:	log Pow: 2,365 (20 °C) Method: OECD Test Guideline 107  log Pow: 2,61 - 2,69 (20 - 21 °C) pH: 4 - 10 Method: Regulation (EC) No. 440/2008, Annex, A.8

### **Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:**

Bioaccumulation	:	Remarks: No bioaccumulation is to be expected (log Pow <= 4).
Partition coefficient: n-octanol/water	:	log Pow: < 3,44 (20 °C)

### **calcium dodecylbenzenesulphonate:**

Bioaccumulation	:	Species: Fish Bioconcentration factor (BCF): 70,79 Method: QSAR
Partition coefficient: n-octanol/water	:	log Pow: 4,77 (25 °C)

### **2-methylpropan-1-ol:**

Bioaccumulation	:	Remarks: No bioaccumulation is to be expected (log Pow <= 4).
Partition coefficient: n-octanol/water	:	Pow: 10 (25 °C)

### **Mobility in soil**

#### **Components:**

### **clomazone (ISO):**

Distribution among environmental compartments	:	Koc: 300 ml/g, log Koc: 2,47 Remarks: Moderately mobile in soils
Stability in 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.
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### Components:

#### **clomazone (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.

## 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.

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## SINERGE® EC

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(Aromatic hydrocarbons, Clomazone, Ametryn)

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.  
(Aromatic hydrocarbons, Clomazone, Ametryn)

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. (Aromatic hydrocarbons, Clomazone, Ametryn)

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.  
(Aromatic hydrocarbons, Clomazone, Ametryn)

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**

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

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

Brazil. List of chemicals controlled by the Federal Police : 2-methylpropan-1-ol

### 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.  ametryn (ISO) clomazone (ISO) Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide o-Chlorobenzaldehyde
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	: Not in compliance with the inventory
TECI	: Not in compliance with the inventory

## SECTION 16. OTHER INFORMATION

Revision Date	: 13.05.2025
Date format	: dd.mm.yyyy

### Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
BR OEL	: Brazil. NR 15 - Unhealthy activities and operations
ACGIH / TWA	: 8-hour, time-weighted average



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BR OEL / LT : Up to 48 hours /week

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

### Disclaimer

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