

# SAFETY DATA SHEET

## MARSHAL STAR®



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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : MARSHAL STAR®

#### 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 : Can be used as insecticide only.  
Insecticide

Restrictions on use : Use as recommended by the label.

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### SECTION 2. HAZARDS IDENTIFICATION

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

Flammable liquids : Category 3

Acute toxicity (Oral) : Category 2

Acute toxicity (Dermal) : Category 5

Skin sensitization : Category 1

Specific target organ toxicity - : Category 2 (Gastrointestinal tract, Stomach, Bladder)  
single exposure

Specific target organ toxicity - : Category 2 (Central nervous system)  
repeated exposure

Aspiration hazard : Category 1

Short-term (acute) aquatic : Category 1  
hazard

Long-term (chronic) aquatic : Category 1  
hazard

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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.  
H300 Fatal if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H313 May be harmful in contact with skin.  
H317 May cause an allergic skin reaction.  
H371 May cause damage to organs (Gastrointestinal tract, Stomach, Bladder).  
H373 May cause damage to organs (Central nervous system) through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

: **Prevention:**  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe mist or vapors.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection/ face protection.

#### Response:

P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.  
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.  
P331 Do NOT induce vomiting.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
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.

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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)
carbosulfan (ISO)	55285-14-8	Acute Tox. (Oral), 3 Acute Tox. (Inhalation), 2 Acute Tox. (Dermal), 5 STOT SE, (Nervous system, Bladder, Gastro-intestinal system, Blood) , 1 STOT RE, (Nervous system, Bladder, Gastro-intestinal system, Blood) , 1 Aquatic Acute, 1 Aquatic Chronic, 1	>= 70 -< 90
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	>= 10 -< 20
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	>= 3 -< 5

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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	>= 1 -< 3
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### 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 : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off with soap and water.  
If on clothes, remove clothes.  
If skin irritation persists, 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 : Contains a cholinesterase inhibitor. Symptoms may include nausea, diarrhea, vomiting, decreased appetite, indigestion, muscle cramps, fatigue, insomnia, dizziness, headache, and lack of energy.  
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.  
Fatal if swallowed.  
May be fatal if swallowed and enters airways.  
May be harmful in contact with skin.  
May cause an allergic skin reaction.

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May cause damage to organs.  
May cause damage to organs through prolonged or repeated exposure.

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

Notes to physician : Treat symptomatically.

### SECTION 5. FIRE-FIGHTING MEASURES

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  
Sulfur oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen cyanide

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

Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.  
Use personal protective equipment.  
If it can be safely done, stop the leak.  
Do not touch or walk through the spilled material.

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
Prevent product from entering drains.  
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.

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

**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : 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. 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.
- 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 : Prevent unauthorized access. No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis

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Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified	64742-95-6	TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
2-methylpropan-1-ol	78-83-1	LT	40 ppm 115 mg/m3	BR OEL
		Further information: Degree of harmfulness: medium		
		TWA	50 ppm	ACGIH

### Personal protective equipment

- Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
- Hand protection  
Material : Protective gloves
- Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles
- Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Protective measures : Plan first aid action before beginning work with this product.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state : liquid
- Form : viscous liquid
- Color : dark brown
- Odor : solvent, petrol-like
- Odor Threshold : No data available
- pH : 8,54 (20 °C)
- Melting point/ range : No data available
- Boiling point/boiling range : No data available
- Flash point : 50 °C

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Evaporation rate	:	No data available
Flammability (liquids)	:	Sustains combustion
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	< 0,000001 mmHg
Relative vapor density	:	No data available
Relative density	:	No data available
Density	:	1,02 g/cm <sup>3</sup> No data available
Solubility(ies)		
Water solubility	:	Miscible
Solubility in other solvents	:	Solvent: Acetone Description: completely miscible  Solvent: dichloromethane Description: completely miscible  Solvent: hexane Description: completely miscible
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	68,5 mPa.s ( 20 °C)
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	Non-oxidizing
Molecular weight	:	Not applicable



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**SECTION 10. STABILITY AND REACTIVITY**

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

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure : Skin contact

**Acute toxicity**

Fatal if swallowed.

May be harmful in contact with skin.

**Product:**

- |                           |   |   |
|---------------------------|---|---|
| Acute oral toxicity       | : | LD50 Oral (Rat, female): 5 - 50 mg/kg<br>Method: OECD Test Guideline 423<br>Assessment: The component/mixture is highly toxic after single ingestion.                           |
| Acute inhalation toxicity | : | Remarks: The product has a low vapor pressure, and inhalation is not expected to be a relevant route of exposure.   |
| Acute dermal toxicity     | : | LD50 Dermal (Rabbit, male and female): > 2.000 mg/kg<br>Method: OECD Test Guideline 402<br>Assessment: The component/mixture is minimally toxic after single contact with skin. |

**Components:****carbosulfan (ISO):**

- |                           |   |   |
|---------------------------|---|---|
| Acute oral toxicity       | : | LD50 (Rat, female): 185 mg/kg   |
| Acute inhalation toxicity | : | LC50 (Rat, female): 0,15 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist |
| Acute dermal toxicity     | : | LD50 (Rat): > 2.000 mg/kg   |

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

- |                     |   |  |
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| Acute oral toxicity | : | LD50 (Rat, female): 3.492 mg/kg<br>Method: OECD Test Guideline 401 |
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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.

### **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  
Assessment: The substance or mixture has no acute inhalation toxicity

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

### **Skin corrosion/irritation**

Not classified based on available information.

### **Product:**

Species : Rabbit  
Assessment : Not classified as irritant  
Method : OECD Test Guideline 404  
Result : slight irritation

### **Components:**

**carbosulfan (ISO):**

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Species : Rabbit  
Result : slight 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.

### **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**

Not classified based on available information.

### **Product:**

Species : Rabbit  
Result : slight irritation  
Assessment : Not classified as irritant  
Method : OECD Test Guideline 405

### **Components:**

#### **carbosulfan (ISO):**

Species : Rabbit  
Result : slight irritation

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

Species : Rabbit  
Result : No eye irritation

Assessment : Irritating to eyes.

### **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

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

Species	:	Rabbit
Result	:	Irreversible effects on the eye

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

May cause an allergic skin reaction.

**Respiratory sensitization**

Not classified based on available information.

**Components:****carbosulfan (ISO):**

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

**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.

**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.

**Germ cell mutagenicity**

Not classified based on available information.

**Product:**

Genotoxicity in vitro	:	Test Type: Ames test Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: mice Method: OECD Test Guideline 474 Result: negative

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**Components:****carbosulfan (ISO):**

Genotoxicity in vitro	:	Test Type: reverse mutation assay Test system: Salmonella typhimurium Result: negative  Test Type: reverse mutation assay Test system: Escherichia coli Result: negative  Test Type: gene mutation test Test system: Chinese hamster cells Result: negative  Test Type: Chromosome aberration test in vitro Test system: Chinese hamster cells Result: negative
Genotoxicity in vivo	:	Test Type: chromosome aberration assay Species: mice 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

**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.

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

Genotoxicity in vitro : Result: negative

Genotoxicity in vivo : Result: negative

**Carcinogenicity**

Not classified based on available information.

**Components:****carbosulfan (ISO):**

Species	: Mouse
Exposure time	: 2 Years
NOAEL	: 2,5 mg/kg bw/day
Result	: negative

Species	: Rat
Exposure time	: 2 Years
NOAEL	: 1 mg/kg bw/day
Result	: negative

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

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

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

**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**

Not classified based on available information.

**Components:****carbosulfan (ISO):**

Effects on fertility	: Test Type: Three-generation study Species: Rat Application Route: Oral General Toxicity Parent: NOAEL: 1,2 mg/kg bw/day Fertility: NOAEL: 1,2 mg/kg bw/day Result: negative
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Effects on fetal development : Test Type: Embryo-fetal development

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Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 2 mg/kg bw/day  
Developmental Toxicity: NOAEL: 2  
Result: negative

Test Type: Embryo-fetal development  
Species: Rabbit  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 5 mg/kg bw/day  
Developmental Toxicity: NOAEL: 10  
Result: negative

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

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

Effects on fertility : Test Type: Three-generation study  
Species: Rat  
Application Route: inhalation (vapor)  
Fertility: NOAEC Mating/Fertility: 7,5 mg/l  
Result: negative  
Remarks: Based on data from similar materials

Effects on fetal development : Species: Mouse  
Application Route: inhalation (vapor)  
General Toxicity Maternal: LOAEC: 500 part per million  
Symptoms: Maternal effects.

**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  
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

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**STOT-single exposure**

May cause damage to organs (Gastrointestinal tract, Stomach, Bladder).

**Components:****carbosulfan (ISO):**

Target Organs	:	Nervous system, Bladder, Gastro-intestinal system, Blood
Assessment	:	The substance or mixture is classified as specific target organ toxicant, single exposure, category 1.

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

Assessment	:	May cause respiratory irritation. May cause drowsiness or dizziness.
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**2-methylpropan-1-ol:**

Assessment	:	May cause respiratory irritation. May cause drowsiness or dizziness.
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**STOT-repeated exposure**

May cause damage to organs (Central nervous system) through prolonged or repeated exposure.

**Components:****carbosulfan (ISO):**

Target Organs	:	Nervous system, Bladder, Gastro-intestinal system, Blood
Assessment	:	The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 1.

**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.
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**Repeated dose toxicity****Components:****carbosulfan (ISO):**

Species	:	Rat
NOAEL	:	2 mg/kg bw/day
Application Route	:	Oral
Exposure time	:	90 days
Species	:	Dog
NOAEL	:	1.6 mg/kg bw/day
Application Route	:	Oral
Exposure time	:	6 months

**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



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Remarks : Based on data from similar materials

Species : Rat, male  
NOAEL : 600 mg/kg  
Application Route : Oral  
Remarks : Based on data from similar materials

### 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  
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:

#### carbosulfan (ISO):

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

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

May be fatal if swallowed and enters airways.

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Product:**

- |   |   |   |
|---|---|---|
| Toxicity to fish                                    | : | LC50 (Danio rerio (zebra fish)): 12,49 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203                         |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia similis (Water flea)): < 0,01 mg/l<br>Exposure time: 48 h   |
| Toxicity to algae/aquatic plants                    | : | EC50 (Selenastrum capricornutum (green algae)): 1.505 mg/l<br>Exposure time: 96 h   |
| Toxicity to soil dwelling organisms                 | : | LC50 (Eisenia fetida (earthworms)): 134 mg/kg<br>Exposure time: 14 d  |
|   |   | Remarks: No significant adverse effect on Nitrogen mineralization.<br>No significant adverse effect on Carbon mineralization. |
| Toxicity to terrestrial organisms                   | : | LD50 (Coturnix japonica (Japanese quail)): 24,82 mg/kg<br>Exposure time: 14 d<br>Method: OECD Test Guideline 223              |
|   |   | LD50 (Apis mellifera (bees)): 0,11 µg/bee<br>Exposure time: 48 h<br>End point: Acute contact toxicity                         |

**Ecotoxicology Assessment**

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

**Components:****carbosulfan (ISO):**

- |   |   |   |
|---|---|---|
| Toxicity to fish                                    | : | LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,015 mg/l<br>Exposure time: 96 h      |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): 0,0015 mg/l<br>Exposure time: 48 h                 |
| Toxicity to algae/aquatic plants                    | : | EC50 (Pseudokirchneriella subcapitata (microalgae)): > 20 mg/l<br>Exposure time: 96 h |
| M-Factor (Acute aquatic toxicity)                   | : | 100   |
| Toxicity to fish (Chronic toxicity)                 | : | NOEC (Pimephales promelas (fathead minnow)): 0,00828 mg/l<br>Exposure time: 21 d      |

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0,0032 mg/l  
Exposure time: 21 d

M-Factor (Chronic aquatic toxicity) : 10

Toxicity to terrestrial organisms : (Apis mellifera (bees)): 1,035 µg/bee  
Remarks: Oral

(Apis mellifera (bees)): 0,18 µg/bee  
Remarks: Contact

LD50 (Anas platyrhynchos (Mallard duck)): 10 mg/kg

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

Toxicity to fish : NOEC (Oncorhynchus mykiss (rainbow trout)): 4,5 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

LL50 (Pimephales promelas (fathead minnow)): 8,2 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 4,5 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (microalgae)): 3,1 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOELR (Pimephales promelas (fathead minnow)): 2,6 mg/l  
Exposure time: 14 d  
Method: OECD Test Guideline 204  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 2,6 mg/l  
Exposure time: 21 d  
Method: OECD Test Guideline 211

Toxicity to microorganisms : EC50 (Tetrahymena pyriformis): 15,41 mg/l  
Exposure time: 40 h  
Test Type: Growth inhibition  
Remarks: The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (CAESAR models), etc.

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**Ecotoxicology Assessment**

Acute aquatic toxicity : Toxic to aquatic life.

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

**calcium dodecylbenzenesulphonate:**

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): 10 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials  LC50 (Pimephales promelas (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 (Daphnia magna (Water flea)): 3,5 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 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

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### 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

### Persistence and degradability

#### Components:

#### **carbosulfan (ISO):**

Biodegradability	:	Result: Not readily biodegradable. Biodegradation: 28 % Exposure time: 28 d
Stability in water	:	Remarks: Hydrolyzes readily.

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

Biodegradability	:	Concentration: 49,2 mg/l Result: Inherently biodegradable. Biodegradation: 77,05 % Exposure time: 28 d Method: OECD Test Guideline 301F
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#### **calcium dodecylbenzenesulphonate:**

Biodegradability	:	Result: Readily biodegradable. Method: OECD Test Guideline 301E
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### 2-methylpropan-1-ol:

Biodegradability	:	Result: Readily biodegradable.
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### Bioaccumulative potential

#### Product:

Bioaccumulation	:	Remarks: No data available
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#### Components:

#### **carbosulfan (ISO):**

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Bioaccumulation : Species: Fish  
Bioconcentration factor (BCF): 990  
Remarks: Can accumulate in aquatic organisms.

Partition coefficient: n-octanol/water : log Pow: 5,37  
pH: 8  
Method: OECD Test Guideline 107

### **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**

#### **Product:**

Distribution among environmental compartments : Remarks: Highly mobile in soils

#### **Components:**

#### **carbosulfan (ISO):**

Distribution among environmental compartments : Remarks: Slightly 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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## 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 chemi-

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cal 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.

Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

##### UNRTDG

UN number : UN 2991  
Proper shipping name : CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE  
(Carbosulfan, Solvent naphtha (petroleum), light aromatic)

Class : 6.1  
Subsidiary risk : 3  
Packing group : II  
Labels : 6.1 (3)  
Environmentally hazardous : yes

##### IATA-DGR

UN/ID No. : UN 2991

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Proper shipping name : Carbamate pesticide, liquid, toxic, flammable  
(Carbosulfan, Solvent naphtha (petroleum), light aromatic)

Class : 6.1

Subsidiary risk : 3

Packing group : II

Labels : Toxic, Flammable Liquids

Packing instruction (cargo aircraft) : 662

Packing instruction (passenger aircraft) : 654

### IMDG-Code

UN number : UN 2991

Proper shipping name : CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE  
(Carbosulfan, Solvent naphtha (petroleum), light aromatic)

Class : 6.1

Subsidiary risk : 3

Packing group : II

Labels : 6.1 (3)

EmS Code : F-E, S-D

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 2991

Proper shipping name : CARBAMATE PESTICIDE, LIQUID, TOXIC, FLAMMABLE,  
N.O.S, WITH PFG = OR > THAN 23° C  
(Carbosulfan, Solvent naphtha (petroleum), light aromatic)

Class : 6.1

Subsidiary risk : 3

Packing group : II

Labels : 6.1 (3)

Hazard Identification Number : 63

### Special precautions for user

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

## SECTION 15. REGULATORY INFORMATION

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

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



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National List of Carcinogenic Agents for Humans - (LINACH)

Brazil. List of chemicals controlled by the Federal Police : Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified  
2-methylpropan-1-ol

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

TCSI	: On the inventory, or in compliance with the inventory
TSCA	: Product contains substance(s) not listed on TSCA inventory.
AIIC	: Not in compliance with the inventory
DSL	: This product contains the following components that are not on the Canadian DSL nor NDSL.  2,3-DIHYDRO-2,2-DIMETHYLBENZOFURAN-7-YL (DIBUTYLAMINTHIO)METHYLCARBAMATE
ENCS	: Not in compliance with the inventory
ISHL	: Not in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
NZIoC	: Not in compliance with the inventory
TECI	: Not in compliance with the inventory

## SECTION 16. OTHER INFORMATION

Revision Date	: 10.07.2025
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### Full text of other abbreviations

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

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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

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