SAFETY DATA SHEET

Fluazuron / Citronellal Formulation

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
   Trade name: Fluazuron / Citronellal Formulation

1.2 Relevant identified uses of the substance or mixture and uses advised against
   Use of the Substance/Mixture: Veterinary product

1.3 Details of the supplier of the safety data sheet
   Company: MSD
   20 Spartan Road
   1619 Spartan, South Africa
   Telephone: +27119239300
   E-mail address of person responsible for the SDS: EHSDATASTEWARD@msd.com

1.4 Emergency telephone number
   +1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
   Classification (REGULATION (EC) No 1272/2008)
   - Flammable liquids, Category 3
   - Skin irritation, Category 2
   - Eye irritation, Category 2
   - Skin sensitisation, Category 1
   - Reproductive toxicity, Category 1B
   - Specific target organ toxicity - single exposure, Category 3
   - Short-term (acute) aquatic hazard, Category 1
   - Long-term (chronic) aquatic hazard, Category 1

   Hazard statements:
   - H226: Flammable liquid and vapour.
   - H315: Causes skin irritation.
   - H319: Causes serious eye irritation.
   - H317: May cause an allergic skin reaction.
   - H360D: May damage the unborn child.
   - H335: May cause respiratory irritation.
   - H400: Very toxic to aquatic life.
   - H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements
   Labelling (REGULATION (EC) No 1272/2008)
   - Signal word: Danger
   - Hazard statements: H226 Flammable liquid and vapour.
   - H315 Causes skin irritation.
H317  May cause an allergic skin reaction.
H319  Causes serious eye irritation.
H335  May cause respiratory irritation.
H360D May damage the unborn child.
H410  Very toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention:
P201  Obtain special instructions before use.
P210  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273  Avoid release to the environment.
P280  Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P308 + P313  IF exposed or concerned: Get medical advice/ attention.
P391  Collect spillage.

Hazardous components which must be listed on the label:
N-Methyl-2-pyrrolidone
6-Octenal, 3,7-dimethyl-

Additional Labelling
Restricted to professional users.

2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Classification</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Index-No.</td>
<td>Registration number</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N-Methyl-2-pyrrolidone</td>
<td>872-50-4</td>
<td>212-828-1</td>
<td>Skin Irrit. 2; H315</td>
<td>&gt;= 30 - &lt; 50</td>
</tr>
<tr>
<td></td>
<td>606-021-00-7</td>
<td></td>
<td>Eye Irrit. 2; H319</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Repr. 1B; H360D</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3; H335</td>
<td></td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>67-63-0</td>
<td>200-661-7</td>
<td>Flam. Liq. 2; H225</td>
<td>&gt;= 1 - &lt; 10</td>
</tr>
<tr>
<td></td>
<td>603-117-00-0</td>
<td></td>
<td>Eye Irrit. 2; H319</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3; H336</td>
<td></td>
</tr>
<tr>
<td>Butanone</td>
<td>78-93-3</td>
<td>201-159-0</td>
<td>Flam. Liq. 2; H225</td>
<td>&gt;= 1 - &lt; 10</td>
</tr>
<tr>
<td></td>
<td>606-002-00-3</td>
<td></td>
<td>Eye Irrit. 2; H319</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3; H336</td>
<td></td>
</tr>
</tbody>
</table>
## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General advice**: In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

**Protection of first-aiders**: First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).

**If inhaled**: If inhaled, remove to fresh air. Get medical attention.

**In case of skin contact**: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**In case of eye contact**: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.

### Table of Chemicals with Their Hazard Classification and M-Factor

<table>
<thead>
<tr>
<th>Chemical</th>
<th>Hazard Classifications</th>
<th>M-Factor (Acute aquatic toxicity)</th>
<th>M-Factor (Chronic aquatic toxicity)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-Octenal, 3,7-dimethyl-</td>
<td>Skin Irrit. 2; H315</td>
<td>&gt;= 1 - &lt; 10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Eye Irrit. 2; H319</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin Sens. 1; H317</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fluazuron</td>
<td>Aquatic Acute 1; H400</td>
<td>&gt;= 2,5 - &lt; 10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic 1; H410</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>M-Factor (Acute aquatic toxicity): 1.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>M-Factor (Chronic aquatic toxicity): 1.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,6-Di-tert-butyl-p-cresol</td>
<td>Aquatic Acute 1; H400</td>
<td>&gt;= 0,25 - &lt; 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic 1; H410</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>M-Factor (Acute aquatic toxicity): 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>M-Factor (Chronic aquatic toxicity): 1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For explanation of abbreviations see section 16.
If swallowed: If swallowed, DO NOT induce vomiting.
Get medical attention.
Rinse mouth thoroughly with water.

4.2 Most important symptoms and effects, both acute and delayed
Risks:
- Causes skin irritation.
- May cause an allergic skin reaction.
- Causes serious eye irritation.
- May cause respiratory irritation.
- May damage the unborn child.

4.3 Indication of any immediate medical attention and special treatment needed
Treatment: Treat symptomatically and supportively.

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media:
- Water spray
- Alcohol-resistant foam
- Carbon dioxide (CO2)
- Dry chemical

Unsuitable extinguishing media:
- High volume water jet

5.2 Special hazards arising from the substance or mixture
Specific hazards during firefighting:
- Do not use a solid water stream as it may scatter and spread fire.
- Flash back possible over considerable distance.
- Vapours may form explosive mixtures with air.
- Exposure to combustion products may be a hazard to health.

Hazardous combustion products:
- Carbon oxides
- Nitrogen oxides (NOx)
- Chlorine compounds
- Fluorine compounds

5.3 Advice for firefighters
Special protective equipment for firefighters:
- In the event of fire, wear self-contained breathing apparatus.
- Use personal protective equipment.

Specific extinguishing methods:
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Use water spray to cool unopened containers.
- Remove undamaged containers from fire area if it is safe to do so.
- Evacuate area.
SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Remove all sources of ignition.
Use personal protective equipment.
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

6.2 Environmental precautions

Environmental precautions:
Avoid release to the environment.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up:
Non-sparking tools should be used.
Soak up with inert absorbent material.
Suppress (knock down) gases/vapours/mists with a water spray jet.
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections
See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation: If sufficient ventilation is unavailable, use with local exhaust ventilation.
Use explosion-proof electrical, ventilating and lighting equipment.
Advice on safe handling:
Do not get on skin or clothing.
Avoid breathing mist or vapours.
Do not swallow.
Do not get in eyes.
Wash skin thoroughly after handling.
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment.
Non-sparking tools should be used.
Keep container tightly closed.
Already sensitised individuals should consult their physician regarding working with respiratory irritants or sensitisers.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Take precautionary measures against static discharges.
Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures:
If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use.
The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.

7.2 Conditions for safe storage, including any incompatibilities
Requirements for storage areas and containers: Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.
Advice on common storage: Do not store with the following product types:
- Strong oxidizing agents
- Organic peroxides
- Flammable solids
- Pyrophoric liquids
- Pyrophoric solids
- Self-heating substances and mixtures
- Substances and mixtures, which in contact with water, emit flammable gases
- Explosives
- Gases

7.3 Specific end use(s)
Specific use(s): No data available

SECTION 8: Exposure controls/personal protection
8.1 Control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-Methyl-2-pyrrolidone</td>
<td>872-50-4</td>
<td>TWA OEL-RL</td>
<td>100 ppm 400 mg/m3</td>
<td>ZA OEL</td>
</tr>
</tbody>
</table>
Further information: Recommended Limit

<table>
<thead>
<tr>
<th>Substance</th>
<th>TWA (µg/m³)</th>
<th>STEL (µg/m³)</th>
<th>OEL-RL (µg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propan-2-ol</td>
<td>10 ppm</td>
<td>20 ppm</td>
<td>400 ppm</td>
</tr>
<tr>
<td>Butanone</td>
<td>200 ppm</td>
<td>300 ppm</td>
<td>885 ppm</td>
</tr>
<tr>
<td>Fluazuron</td>
<td>10 µg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,6-Di-tert-butyl-p-cresol</td>
<td></td>
<td>10 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

Further information: Absorption through the skin, Recommended Limit

<table>
<thead>
<tr>
<th>Substance</th>
<th>STEL OEL-RL (µg/m³)</th>
<th>ZA OEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propan-2-ol</td>
<td>500 ppm</td>
<td>1,225 mg/m³</td>
</tr>
<tr>
<td>Butanone</td>
<td>300 ppm</td>
<td>885 mg/m³</td>
</tr>
<tr>
<td>Fluazuron</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2,6-Di-tert-butyl-p-cresol</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

<table>
<thead>
<tr>
<th>Substance name</th>
<th>End Use</th>
<th>Exposure routes</th>
<th>Potential health effects</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-Octenal, 3,7-dimethyl-</td>
<td>Workers</td>
<td>Inhalation</td>
<td>Long-term systemic effects</td>
<td>9 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Skin contact</td>
<td>Long-term systemic effects</td>
<td>1,7 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Skin contact</td>
<td>Long-term local effects</td>
<td>0,140 mg/cm²</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Inhalation</td>
<td>Long-term systemic effects</td>
<td>2,7 mg/cm²</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Skin contact</td>
<td>Long-term systemic effects</td>
<td>1 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Skin contact</td>
<td>Long-term local effects</td>
<td>0,140 mg/cm²</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Ingestion</td>
<td>Long-term systemic effects</td>
<td>0,6 mg/kg bw/day</td>
</tr>
<tr>
<td>N-Methyl-2-pyrrolidone</td>
<td>Workers</td>
<td>Inhalation</td>
<td>Long-term systemic effects</td>
<td>14,4 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Inhalation</td>
<td>Long-term local effects</td>
<td>40 mg/m³</td>
</tr>
<tr>
<td>Substance name</td>
<td>Environmental Compartment</td>
<td>Value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------------------------------</td>
<td>------------------------------------</td>
<td>------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6-Octenal, 3,7-dimethyl-</td>
<td>Fresh water</td>
<td>0.00868 mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Marine water</td>
<td>0.00087 mg/l</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Intermittent use/release</td>
<td>0.0868 mg/l</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Sewage treatment plant</td>
<td>4 mg/l</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fresh water sediment</td>
<td>0.159 mg/kg</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Marine sediment</td>
<td>0.0159 mg/kg</td>
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</tr>
<tr>
<td></td>
<td>Soil</td>
<td>0.0267 mg/kg</td>
<td></td>
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</tr>
<tr>
<td>N-Methyl-2-pyrrolidone</td>
<td>Fresh water</td>
<td>0.25 mg/l</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Freshwater - intermittent</td>
<td>5 mg/l</td>
<td></td>
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<tr>
<td></td>
<td>Marine water</td>
<td>0.025 mg/l</td>
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<tr>
<td></td>
<td>Sewage treatment plant</td>
<td>10 mg/l</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:
8.2 Exposure controls

**Engineering measures**

Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip-less quick connections).

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

Use explosion-proof electrical, ventilating and lighting equipment.

**Personal protective equipment**

Eye protection: Wear safety glasses with side shields or goggles.
If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.

Hand protection

Material: Chemical-resistant gloves

Remarks: Consider double gloving. Take note that the product is flammable, which may impact the selection of hand protection.

Skin and body protection: Work uniform or laboratory coat.
Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.
Use appropriate degowning techniques to remove potentially contaminated clothing.

Respiratory protection: If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

Filter type: Organic vapour type (A)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Aqueous solution
Colour: yellow
Odour: No data available
Odour Threshold: No data available

pH: No data available
Melting point/freezing point: -4 °C
Initial boiling point and boiling range: 78 °C
Flash point: 52 °C
Evaporation rate: No data available
Flammability (solid, gas): Not applicable
Upper explosion limit / Upper flammability limit: No data available
Lower explosion limit / Lower flammability limit: No data available
Vapour pressure: No data available
Relative vapour density: No data available
Relative density: 0.94 - 0.96
SAFETY DATA SHEET

Fluazuron / Citronellal Formulation

Version: 1.5
Revision Date: 27.08.2021
SDS Number: 4624632-00006
Date of last issue: 09.04.2021
Date of first issue: 09.07.2019

Density: No data available

Solubility(ies):
Water solubility: practically insoluble
Solubility in other solvents: soluble
Solvent: Ethanol

Partition coefficient: n-octanol/water: log Pow: -0.54
Auto-ignition temperature: No data available
Decomposition temperature: No data available

Viscosity:
Viscosity, kinematic: 5.3 - 5.7 mm²/s (25 °C)

Explosive properties: Not explosive

Oxidizing properties: The substance or mixture is not classified as oxidizing.

9.2 Other information

Flammability (liquids): Not applicable
Molecular weight: No data available
Particle size: Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity
Not classified as a reactivity hazard.

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
Hazardous reactions: Flammable liquid and vapour.
Vapours may form explosive mixture with air.
Can react with strong oxidizing agents.

10.4 Conditions to avoid
Conditions to avoid: Heat, flames and sparks.

10.5 Incompatible materials
Materials to avoid: Oxidizing agents

10.6 Hazardous decomposition products
No hazardous decomposition products are known.
SAFETY DATA SHEET

Fluazuron / Citronellal Formulation

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure:
- Inhalation
- Skin contact
- Ingestion
- Eye contact

**Acute toxicity**
Not classified based on available information.

**Components:**

**N-Methyl-2-pyrrolidone:**
- Acute oral toxicity: LD50 (Rat): 4.150 mg/kg
- Acute inhalation toxicity: LC50 (Rat): > 5.1 mg/l
  Exposure time: 4 h
  Test atmosphere: dust/mist
  Method: OECD Test Guideline 403
- Acute dermal toxicity: LD50 (Rat): > 5.000 mg/kg

**Propan-2-ol:**
- Acute oral toxicity: LD50 (Rat): > 5.000 mg/kg
- Acute inhalation toxicity: LC50 (Rat): > 25 mg/l
  Exposure time: 6 h
  Test atmosphere: vapour
- Acute dermal toxicity: LD50 (Rabbit): > 5.000 mg/kg

**Butanone:**
- Acute oral toxicity: LD50 (Rat): > 2.000 - 5.000 mg/kg
  Remarks: Based on data from similar materials
- Acute inhalation toxicity: LC50 (Rat): > 25.5 mg/l
  Exposure time: 4 h
  Test atmosphere: vapour
  Method: OECD Test Guideline 436
  Remarks: Based on data from similar materials
- Acute dermal toxicity: LD50 (Rabbit): > 5.000 mg/kg

**6-Octenal, 3,7-dimethyl-:**
- Acute oral toxicity: LD50 (Rat): 2.423 mg/kg
- Acute dermal toxicity: LD50 (Rabbit): > 2.500 - < 5.000 mg/kg

**Fluazuron:**
- Acute oral toxicity: LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity: LC50 (Rat): > 6.0 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute dermal toxicity: LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402

2,6-Di-tert-butyl-p-cresol:
Acute oral toxicity: LD50 (Rat): > 6.000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity: LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation
Causes skin irritation.

Components:

N-Methyl-2-pyrrolidone:
Result: Skin irritation

Propan-2-ol:
Species: Rabbit  
Result: No skin irritation

Butanone:
Assessment: Repeated exposure may cause skin dryness or cracking.  
Species: Rabbit  
Method: OECD Test Guideline 404  
Result: No skin irritation  
Remarks: Based on data from similar materials

6-Octenal, 3,7-dimethyl-:
Species: Rabbit  
Result: Skin irritation

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

2,6-Di-tert-butyl-p-cresol:
Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
Remarks: Based on data from similar materials

Serious eye damage/eye irritation
Causes serious eye irritation.

Components:

N-Methyl-2-pyrrolidone:
Species: Rabbit
Result: Irritation to eyes, reversing within 21 days

Propan-2-ol:
Species: Rabbit
Result: Irritation to eyes, reversing within 21 days

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

6-Octenal, 3,7-dimethyl-:
Species: Rabbit
Result: Irritation to eyes, reversing within 21 days

Fluazuron:
Species: Rabbit
Method: OECD Test Guideline 405
Result: Mild eye irritation

2,6-Di-tert-butyl-p-cresol:
Species: Rabbit
Method: OECD Test Guideline 405
Result: No eye irritation
Remarks: Based on data from similar materials

Skin sensitisation
May cause an allergic skin reaction.

Respiratory sensitisation
Not classified based on available information.

Components:

N-Methyl-2-pyrrolidone:
Test Type: Local lymph node assay (LLNA)
Exposure routes: Skin contact
Species: Mouse
Method: OECD Test Guideline 429
Result: negative
Remarks: Based on data from similar materials

**Propan-2-ol:**
Test Type: Buehler Test
Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative

**Butanone:**
Test Type: Buehler Test
Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative

**6-Octenal, 3,7-dimethyl-:**
Test Type: Maximisation Test
Exposure routes: Skin contact
Species: Guinea pig
Result: positive

Assessment: Probability or evidence of skin sensitisation in humans

**Fluazuron:**
Exposure routes: Skin contact
Species: Guinea pig
Result: negative

**2,6-Di-tert-butyl-p-cresol:**
Test Type: Human repeat insult patch test (HRIPT)
Exposure routes: Skin contact
Species: Humans
Result: negative

**Germ cell mutagenicity**
Not classified based on available information.

**Components:**

**N-Methyl-2-pyrrolidone:**
Genotoxicity in vitro:
Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative
<table>
<thead>
<tr>
<th>Genotoxicity in vivo</th>
<th>Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)</th>
<th>Result: negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Genotoxicity in vivo</td>
<td>Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)</td>
<td>Result: negative</td>
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<tr>
<td></td>
<td>Species: Mouse</td>
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<tr>
<td></td>
<td>Application Route: Ingestion</td>
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<td>Method: OECD Test Guideline 474</td>
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<td></td>
<td>Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)</td>
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<td>Application Route: Ingestion</td>
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<tr>
<td></td>
<td>Method: OECD Test Guideline 475</td>
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<tr>
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**Propan-2-ol:**

<table>
<thead>
<tr>
<th>Genotoxicity in vitro</th>
<th>Test Type: Bacterial reverse mutation assay (AMES)</th>
<th>Result: negative</th>
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</thead>
<tbody>
<tr>
<td>Genotoxicity in vivo</td>
<td>Test Type: In vitro mammalian cell gene mutation test</td>
<td>Result: negative</td>
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</tbody>
</table>

**Butanone:**

<table>
<thead>
<tr>
<th>Genotoxicity in vitro</th>
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<tr>
<td>Genotoxicity in vivo</td>
<td>Test Type: In vitro mammalian cell gene mutation test</td>
<td>Result: negative</td>
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<tr>
<td></td>
<td>Test Type: Chromosome aberration test in vitro</td>
<td>Result: negative</td>
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<tr>
<td></td>
<td>Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)</td>
<td>Result: negative</td>
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<tr>
<td></td>
<td>Test Type: Saccharomyces cerevisiae, gene mutation assay (in vitro)</td>
<td>Result: negative</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Genotoxicity in vivo</th>
<th>Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)</th>
<th>Result: negative</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Species: Mouse</td>
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<tr>
<td></td>
<td>Application Route: Intraperitoneal injection</td>
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</tbody>
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---

SAFETY DATA SHEET

Fluazuron / Citronellal Formulation

Version 1.5  Revision Date: 27.08.2021  SDS Number: 4624632-00006  Date of last issue: 09.04.2021  Date of first issue: 09.07.2019
SAFETY DATA SHEET

Fluazuron / Citronellal Formulation

6-Octenal, 3,7-dimethyl-:
Genotoxicity in vitro: Test Type: In vitro mammalian cell gene mutation test
Method: OECD Test Guideline 476
Result: negative

Fluazuron:
Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Test Type: DNA Repair
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Result: negative

Genotoxicity in vivo: Test Type: Cytogenetic assay
Species: Hamster
Result: equivocal

2,6-Di-tert-butyl-p-cresol:
Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Result: negative

Test Type: Chromosome aberration test in vitro
Result: negative

Genotoxicity in vivo: Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
Species: Rat
Application Route: Ingestion
Result: negative

Carcinogenicity
Not classified based on available information.

Components:

N-Methyl-2-pyrrolidone:
Species: Rat
Application Route: Ingestion
Exposure time: 2 Years
Result: negative

Species: Rat
Application Route: inhalation (vapour)
Exposure time: 2 Years
Result: negative
Propan-2-ol:
Species: Rat
Application Route: inhalation (vapour)
Exposure time: 104 weeks
Method: OECD Test Guideline 451
Result: negative

6-Octenal, 3,7-dimethyl-:
Species: Rat
Application Route: Ingestion
Exposure time: 104 - 105 weeks
Result: negative
Remarks: Based on data from similar materials

Fluazuron:
Species: Rat
Application Route: Ingestion
Exposure time: 2 Years
Method: OECD Test Guideline 453
Result: negative

Species: Mouse
Application Route: Ingestion
Exposure time: 2 Years
Result: negative

2,6-Di-tert-butyl-p-cresol:
Species: Rat
Application Route: Ingestion
Exposure time: 22 Months
Result: negative

Reproductive toxicity
May damage the unborn child.

Components:

N-Methyl-2-pyrrolidone:
Effects on fertility: Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 416
Result: negative

Effects on foetal development: Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: positive

Test Type: Fertility/early embryonic development
Species: Rat
Reproductive toxicity - Assessment: Clear evidence of adverse effects on development, based on animal experiments.

Propan-2-ol:
Effects on fertility: Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative

Effects on foetal development: Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Result: negative

Butanone:
Effects on fertility: Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

Effects on foetal development: Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative

6-Octenal, 3,7-dimethyl-:
Effects on fertility: Test Type: Reproduction/Developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 421
Result: negative
Remarks: Based on data from similar materials

Effects on foetal development: Test Type: Embryo-foetal development
Species: Rat
Application Route: Inhalation
Result: negative
Remarks: Based on data from similar materials

Fluazuron:
Effects on fertility: Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative

Effects on foetal development:
- Test Type: Embryo-foetal development
  Species: Rat
  Application Route: Ingestion
  Result: negative

  Test Type: Embryo-foetal development
  Species: Rabbit
  Application Route: Ingestion
  Method: OECD Test Guideline 414
  Result: negative

2,6-Di-tert-butyl-p-cresol:

Effects on fertility:
- Test Type: Two-generation reproduction toxicity study
  Species: Rat
  Application Route: Ingestion
  Result: negative

Effects on foetal development:
- Test Type: Embryo-foetal development
  Species: Rat
  Application Route: Ingestion
  Result: negative

STOT - single exposure
May cause respiratory irritation.

Components:

N-Methyl-2-pyrrolidone:
Assessment:
- May cause respiratory irritation.

Propan-2-ol:
Assessment:
- May cause drowsiness or dizziness.

Butanone:
Assessment:
- May cause drowsiness or dizziness.

STOT - repeated exposure
Not classified based on available information.

Components:

2,6-Di-tert-butyl-p-cresol:
Assessment:
- No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.
Repeated dose toxicity

**Components:**

**N-Methyl-2-pyrrolidone:**
Species: Rat, male  
NOAEL: 169 mg/kg  
LOAEL: 433 mg/kg  
Application Route: Ingestion  
Exposure time: 90 Days  
Method: OECD Test Guideline 408

Species: Rat  
NOAEL: 0,5 mg/l  
LOAEL: 1 mg/l  
Application Route: inhalation (dust/mist/fume)  
Exposure time: 96 Days  
Method: OECD Test Guideline 413

Species: Rabbit  
NOAEL: 826 mg/kg  
LOAEL: 1.653 mg/kg  
Application Route: Skin contact  
Exposure time: 20 Days

**Propan-2-ol:**
Species: Rat  
NOAEL: 12,5 mg/l  
Application Route: inhalation (vapour)  
Exposure time: 104 Weeks

**Butanone:**
Species: Rat  
NOAEL: 14,84 mg/l  
Application Route: inhalation (vapour)  
Exposure time: 90 Days  
Method: OECD Test Guideline 413

**6-Octenal, 3,7-dimethyl-:**
Species: Rat  
NOAEL: 100 mg/kg  
LOAEL: 210 mg/kg  
Application Route: Ingestion  
Exposure time: 104 - 105 Weeks  
Remarks: Based on data from similar materials

Species: Rat  
NOAEL: 215 mg/m3  
LOAEL: 430 mg/m3  
Application Route: Inhalation  
Exposure time: 13 Weeks  
Remarks: Based on data from similar materials
Fluazuron:
Species: Rat
LOAEL: 240 mg/kg
Application Route: Ingestion
Exposure time: 13 Weeks
Target Organs: Liver, Thyroid, Pituitary gland

Species: Rat
NOAEL: 10 mg/kg
LOAEL: 100 mg/kg
Application Route: Skin contact
Exposure time: 3 Weeks

Species: Dog
NOAEL: 7.5 mg/kg
LOAEL: 110 mg/kg
Application Route: Ingestion
Exposure time: 52 Weeks
Target Organs: Liver

2,6-Di-tert-butyl-p-cresol:
Species: Rat
NOAEL: 25 mg/kg
Application Route: Ingestion
Exposure time: 22 Months

Aspiration toxicity
Not classified based on available information.

Components:

Butanone:
The substance or mixture causes concern owing to the assumption that it causes a human aspiration toxicity hazard.

Experience with human exposure

Components:

N-Methyl-2-pyrrolidone:
Skin contact: Symptoms: Skin irritation

SECTION 12: Ecological information

12.1 Toxicity

Components:

N-Methyl-2-pyrrolidone:
Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): > 500 mg/l
Exposure time: 96 h

Toxicity to daphnia and other: EC50 (Daphnia magna (Water flea)): > 1.000 mg/l
aquatic invertebrates

Toxicity to algae/aquatic plants:
- ErC50 (Desmodesmus subspicatus (green algae)): 600.5 mg/l
  Exposure time: 72 h
- EC10 (Desmodesmus subspicatus (green algae)): 92.6 mg/l
  Exposure time: 72 h

Toxicity to microorganisms:
- EC50: > 600 mg/l
  Exposure time: 30 min
  Method: ISO 8192

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):
- NOEC: 12.5 mg/l
  Exposure time: 21 d
  Species: Daphnia magna (Water flea)
  Method: OECD Test Guideline 211

Propan-2-ol:

Toxicity to fish:
- LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l
  Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:
- EC50 (Daphnia magna (Water flea)): > 10.000 mg/l
  Exposure time: 24 h

Toxicity to microorganisms:
- EC50 (Pseudomonas putida): > 1.050 mg/l
  Exposure time: 16 h

Butanone:

Toxicity to fish:
- LC50 (Pimephales promelas (fathead minnow)): 2.993 mg/l
  Exposure time: 96 h
  Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates:
- EC50 (Daphnia magna (Water flea)): 308 mg/l
  Exposure time: 48 h
  Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants:
- ErC50 (Pseudokirchneriella subcapitata (green algae)): 2.029 mg/l
  Exposure time: 96 h
  Method: OECD Test Guideline 201

  NOEC (Pseudokirchneriella subcapitata (green algae)): 1.240 mg/l
  Exposure time: 96 h
  Method: OECD Test Guideline 201

6-Octenal, 3,7-dimethyl-:

Toxicity to fish:
- LC50 (Leuciscus idus (Golden orfe)): 22 mg/l
  Exposure time: 96 h
  Method: DIN 38412

Toxicity to daphnia and other:
- EC50 (Daphnia magna (Water flea)): 8.7 mg/l
aquatic invertebrates  Exposure time: 48 h

Toxicity to algae/aquatic plants  :  EC50 (Desmodesmus subspicatus (green algae)): 6.74 mg/l
                                 Exposure time: 72 h

**Fluazuron:**

Toxicity to fish  :  LC50 (Cyprinus carpio (Carp)): > 9.1 mg/l
                      Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates  :  EC50 (Daphnia sp. (water flea)): 0.0006 mg/l
                                                        Exposure time: 48 h

Toxicity to algae/aquatic plants  :  NOEC (Raphidocelis subcapitata (freshwater green alga)):
                                      27.9 mg/l
                                      Exposure time: 72 h

M-Factor (Acute aquatic toxicity)  :  1.000

M-Factor (Chronic aquatic toxicity)  :  1.000

**2,6-Di-tert-butyl-p-cresol:**

Toxicity to fish  :  LC50 (Danio rerio (zebra fish)): > 0.57 mg/l
                      Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates  :  EC50 (Daphnia magna (Water flea)): 0.48 mg/l
                                                       Exposure time: 48 h
                                                       Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants  :  ErC50 (Pseudokirchneriella subcapitata (green algae)): > 0.24 mg/l
                                      Exposure time: 72 h
                                      Method: OECD Test Guideline 201

                                                                   NOEC (Pseudokirchneriella subcapitata (green algae)): 0.24 mg/l
                                                                   Exposure time: 72 h
                                                                   Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity)  :  1

Toxicity to microorganisms  :  EC50 : > 10.000 mg/l
                              Exposure time: 3 h
                              Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity)  :  NOEC: 0.053 mg/l
                                       Exposure time: 30 d
                                       Species: Oryzias latipes (Japanese medaka)
                                       Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chro-
12.2 Persistence and degradability

**Components:**

**N-Methyl-2-pyrrolidone:**

Biodegradability: Result: Readily biodegradable. Biodegradation: 73% Exposure time: 28 d Method: OECD Test Guideline 301C

**Propan-2-ol:**

Biodegradability: Result: rapidly degradable

BOD/COD: BOD: 1.19 (BOD5) COD: 2.23 BOD/COD: 53 %

**Butanone:**


**6-Octenal, 3,7-dimethyl-:**


**2,6-Di-tert-butyl-p-cresol:**

Biodegradability: Result: Not readily biodegradable. Biodegradation: 4.5% Exposure time: 28 d Method: OECD Test Guideline 301C

12.3 Bioaccumulative potential

**Components:**

**N-Methyl-2-pyrrolidone:**

Partition coefficient: n-octanol/water: log Pow: -0.46 Method: OECD Test Guideline 107

**Propan-2-ol:**

Partition coefficient: n-octanol/water: log Pow: 0.05
Butanone:  
Partition coefficient: n-octanol/water : log Pow: 0.3

6-Octenal, 3,7-dimethyl-:  
Partition coefficient: n-octanol/water : log Pow: 3.62

Fluazuron:  
Partition coefficient: n-octanol/water : log Pow: 5.1

2,6-Di-tert-butyl-p-cresol:  
Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 330 - 1.800  
Partition coefficient: n-octanol/water : log Pow: 5.1

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment

Product:  
Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:  
Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.
SECTION 14: Transport information

14.1 UN number

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<table>
<thead>
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<tr>
<td>ADN</td>
<td>UN 1993</td>
</tr>
<tr>
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<tr>
<td>RID</td>
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<td>IMDG</td>
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<tr>
<td>IATA</td>
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</table>

14.2 UN proper shipping name

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<tr>
<td>RID</td>
<td>FLAMMABLE LIQUID, N.O.S. (Propan-2-ol, Butanone)</td>
</tr>
<tr>
<td>IMDG</td>
<td>FLAMMABLE LIQUID, N.O.S. (Propan-2-ol, Butanone, Fluazuron, 2,6-Di-tert-butyl-p-cresol)</td>
</tr>
<tr>
<td>IATA</td>
<td>Flammable liquid, n.o.s. (Propan-2-ol, Butanone)</td>
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14.3 Transport hazard class(es)

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<td>ADR</td>
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<td>RID</td>
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<td>IMDG</td>
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</tr>
<tr>
<td>IATA</td>
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</table>

14.4 Packing group

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<tr>
<td>ADR</td>
<td>Packing group: III Classification Code: F1 Hazard Identification Number: 30 Labels: 3 Tunnel restriction code: (D/E)</td>
</tr>
<tr>
<td>RID</td>
<td>Packing group: III Classification Code: F1 Hazard Identification Number: 30 Labels: 3</td>
</tr>
</tbody>
</table>
IMDG
Packing group : III
Labels : F-E, S-E

IATA (Cargo)
Packing instruction (cargo aircraft) : 366
Packing instruction (LQ) : Y344
Packing group : III
Labels : Flammable Liquids

IATA (Passenger)
Packing instruction (passenger aircraft) : 355
Packing instruction (LQ) : Y344
Packing group : III
Labels : Flammable Liquids

14.5 Environmental hazards

ADN
Environmentally hazardous : yes

ADR
Environmentally hazardous : yes

RID
Environmentally hazardous : yes

IMDG
Marine pollutant : yes

14.6 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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

The components of this product are reported in the following inventories:

AICS : not determined

DSL : not determined

IECSC : not determined

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.
SECTION 16: Other information

Other information: Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Full text of H-Statements

H225: Highly flammable liquid and vapour.
H315: Causes skin irritation.
H317: May cause an allergic skin reaction.
H319: Causes serious eye irritation.
H335: May cause respiratory irritation.
H336: May cause drowsiness or dizziness.
H360D: May damage the unborn child.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.
EUH066: Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

Aquatic Acute: Short-term (acute) aquatic hazard
Aquatic Chronic: Long-term (chronic) aquatic hazard
Eye Irrit.: Eye irritation
Flam. Liq.: Flammable liquids
Repr.: Reproductive toxicity
Skin Irrit.: Skin irritation
Skin Sens.: Skin sensitisation
STOT SE: Specific target organ toxicity - single exposure
ZA BEI: South Africa. Hazardous Chemical Substances Regulations, Biological Exposure Indices.
ZA OEL: South Africa. Hazardous Chemical Substances Regulations, Occupational Exposure Limits
2000/39/EC / TWA: Limit Value - eight hours
2009/39/EC / STEL: Short term exposure limit
2009/161/EU / TWA: Limit Value - eight hours
2009/161/EU / STEL: Short term exposure limit
ZA OEL / TWA OEL-RL: Long term occupational exposure limits - recommended limit
ZA OEL / STEL OEL-RL: Short term occupational exposure limits - recommended limit

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - Interna-
SAFETY DATA SHEET

Fluazuron / Citronellal Formulation

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date:</th>
<th>SDS Number:</th>
<th>Date of last issue:</th>
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<td>4624632-00006</td>
<td>09.04.2021</td>
<td>09.07.2019</td>
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Sources of key data used to compile the Safety Data Sheet:

<table>
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<th>Classification of the mixture:</th>
<th>Classification procedure:</th>
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<tr>
<td>Flam. Liq. 3</td>
<td>Based on product data or assessment</td>
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<tr>
<td>Skin Irrit. 2</td>
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<td>Eye Irrit. 2</td>
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<td>Skin Sens. 1</td>
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<td>Repr. 1B</td>
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<tr>
<td>STOT SE 3</td>
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<tr>
<td>Aquatic Acute 1</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
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