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

1.1 Product identifier

Trade name : Indoxacarb / Permethrin 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
Walton Manor, Walton
MK7 7AJ Milton Keynes - United Kingdom

Telephone : 908-740-4000
Telefax : 908-735-1496
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
Acute toxicity, Category 4
Acute toxicity, Category 4
Skin sensitisation, Category 1
Specific target organ toxicity - single exposure, Category 3
Specific target organ toxicity - repeated exposure, Category 1
Short-term (acute) aquatic hazard, Category 1
Long-term (chronic) aquatic hazard, Category 1

H226: Flammable liquid and vapour.
H302: Harmful if swallowed.
H332: Harmful if inhaled.
H317: May cause an allergic skin reaction.
H336: May cause drowsiness or dizziness.
H372: Causes damage to organs through prolonged or repeated exposure.
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)
Hazard pictograms :
Signal word : Danger

Hazard statements :
- H226 Flammable liquid and vapour.
- H302 + H332 Harmful if swallowed or inhaled.
- H317 May cause an allergic skin reaction.
- H336 May cause drowsiness or dizziness.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements :
Prevention:
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
- P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
- P314 Get medical advice/ attention if you feel unwell.
- P391 Collect spillage.

Hazardous components which must be listed on the label:
- Permethrin (ISO)
- 1-Methoxy-2-propanol
- Indoxacarb (ISO)

2.3 Other hazards
Vapours may form explosive mixture with air.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Index-No.</th>
<th>Registration number</th>
<th>Concentration (% w/w)</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permethrin (ISO)</td>
<td>52645-53-1</td>
<td>258-067-9</td>
<td>613-058-00-2</td>
<td></td>
<td>&gt;= 30 - &lt; 50</td>
<td>Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10,000</td>
</tr>
</tbody>
</table>
**SAFETY DATA SHEET**

**Indoxacarb / Permethrin Formulation**

**Version** 2.0  
**Revision Date:** 09/16/2019  
**SDS Number:** 27885-00013  
**Date of last issue:** 05.06.2018  
**Date of first issue:** 04.11.2014

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Acute Toxicity</th>
<th>M-Factor (Chronic aquatic toxicity):</th>
</tr>
</thead>
</table>
| Indoxacarb (ISO) | 173584-44-6 607-700-00-0 | Acute Tox. 3; H301  
Acute Tox. 4; H332  
Skin Sens. 1B; H317  
STOT RE 1; H372  
Aquatic Acute 1; H400  
Aquatic Chronic 1; H410 | >= 10 - < 20 |

**SUBSTANCES WITH A WORKPLACE EXPOSURE LIMIT:**

<table>
<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Flammability</th>
<th>M-Factor (Acute aquatic toxicity):</th>
</tr>
</thead>
</table>
| 1-Methoxy-2-propanol | 107-98-2 203-539-1 603-064-00-3 | Flam. Liq. 3; H226  
STOT SE 3; H336 | >= 30 - < 50 |

For explanation of abbreviations see section 16.

**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.  
If not breathing, give artificial respiration.  
If breathing is difficult, give oxygen.  
Get medical attention if symptoms occur.

**In case of skin contact**:  
In case of contact, immediately flush skin with plenty of water.  
Remove contaminated clothing and shoes.  
Get medical attention.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.

**In case of eye contact**:  
Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.

**If swallowed**:  
If swallowed, DO NOT induce vomiting.  
Get medical attention.  
Rinse mouth thoroughly with water.  
Never give anything by mouth to an unconscious person.
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Indoxacarb / Permethrin Formulation

Version: 2.0  Revision Date: 09/16/2019  SDS Number: 27885-00013  Date of last issue: 05.06.2018

4.2 Most important symptoms and effects, both acute and delayed
Risks: Harmful if swallowed or if inhaled. May cause an allergic skin reaction. May cause drowsiness or dizziness. Causes damage to organs through prolonged or repeated exposure.

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
Chlorine 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 and personal protective equip-
ment recommendations.

6.2 Environmental precautions

Environmental precautions:
- Discharge into the environment must be avoided.
- 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 dyeing 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.
- If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.

Advice on safe handling:
- Do not get on skin or clothing.
- Do not breathe vapours or spray mist.
- Do not swallow.
- Avoid contact with eyes.
- 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.
- Keep away from heat and sources of ignition.
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. Wash contaminated clothing before re-use.

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 solids
- Pyrophoric liquids
- 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>Permethrin (ISO)</td>
<td>52645-53-1</td>
<td>TWA</td>
<td>80 µg/m³ (OEB 3)</td>
<td>Internal</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>800 µg/100 cm²</td>
<td>Internal</td>
</tr>
<tr>
<td>1-Methoxy-2-propanol</td>
<td>107-98-2</td>
<td>STEL</td>
<td>150 ppm 568 mg/m³</td>
<td>2000/39/EC</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td>TWA</td>
<td>100 ppm 375 mg/m³</td>
<td>2000/39/EC</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>100 ppm 375 mg/m³</td>
<td>GB EH40</td>
</tr>
<tr>
<td>Further information</td>
<td></td>
<td>STEL</td>
<td>150 ppm 560 mg/m³</td>
<td>GB EH40</td>
</tr>
</tbody>
</table>
Indoxacarb / Permethrin Formulation

SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Indoxacarb (ISO) 173584-44-6  TWA  20 µg/m³  Internal

Further information
Skin sensitisation
Wipe limit 100 µg/100 cm²  Internal

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>1-Methoxy-2-propanol</td>
<td>Workers</td>
<td>Inhalation</td>
<td>Long-term systemic effects</td>
<td>369 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Inhalation</td>
<td>Acute systemic effects</td>
<td>553.5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Inhalation</td>
<td>Acute local effects</td>
<td>553.5 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Workers</td>
<td>Skin contact</td>
<td>Long-term systemic effects</td>
<td>183 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Inhalation</td>
<td>Long-term systemic effects</td>
<td>43.9 mg/m³</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Skin contact</td>
<td>Long-term systemic effects</td>
<td>78 mg/kg bw/day</td>
</tr>
<tr>
<td></td>
<td>Consumers</td>
<td>Ingestion</td>
<td>Long-term systemic effects</td>
<td>33 mg/kg bw/day</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Environmental Compartment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Methoxy-2-propanol</td>
<td>Fresh water</td>
<td>10 mg/l</td>
</tr>
<tr>
<td></td>
<td>Marine water</td>
<td>1 mg/l</td>
</tr>
<tr>
<td></td>
<td>Freshwater - intermittent</td>
<td>100 mg/l</td>
</tr>
<tr>
<td></td>
<td>Sewage treatment plant</td>
<td>100 mg/l</td>
</tr>
<tr>
<td></td>
<td>Fresh water sediment</td>
<td>52.3 mg/kg dry weight (d.w.)</td>
</tr>
<tr>
<td></td>
<td>Marine sediment</td>
<td>5.2 mg/kg dry weight (d.w.)</td>
</tr>
<tr>
<td></td>
<td>Soil</td>
<td>4.59 mg/kg dry weight (d.w.)</td>
</tr>
</tbody>
</table>

8.2 Exposure controls

Engineering measures
Minimize workplace exposure concentrations.
If sufficient ventilation is unavailable, use with local exhaust ventilation.
If advised by assessment of the local exposure potential, use only in an area equipped with explosion-proof exhaust ventilation.

Personal protective equipment

Eye protection: Wear the following personal protective equipment:
Safety glasses
Equipment should conform to BS EN 166

Hand protection

Material: Chemical-resistant gloves

Remarks: Choose gloves to protect hands against chemicals depending
on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Take note that the product is flammable, which may impact the selection of hand protection. Wash hands before breaks and at the end of workday.

Skin and body protection: Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment:

- If assessment demonstrates that there is a risk of explosive atmospheres or flash fires, use flame retardant antistatic protective clothing.
- Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

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

Filter type: Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: liquid
- Colour: Clear white to yellow.
- Odour: ether-like
- Odour Threshold: No data available
- pH: No data available
- Melting point/freezing point: No data available
- Initial boiling point and boiling range: No data available
- Flash point: 33.5 °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: 1.096
Indoxacarb / Permethrin Formulation

Solubility(ies)
- Water solubility: No data available
- Partition coefficient: n-octanol/water: No data available
- Auto-ignition temperature: No data available
- Decomposition temperature: No data available
- Viscosity
  - Viscosity, kinematic: No data available
- 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: No data available

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.

SECTION 11: Toxicological information

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

**Acute toxicity**

Harmful if swallowed or if inhaled.

**Product:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Acute toxicity estimate</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute oral toxicity</td>
<td>609.38 mg/kg</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Acute inhalation toxicity</td>
<td>4.48 mg/l</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

**Components:**

**Permethrin (ISO):**

<table>
<thead>
<tr>
<th>Type</th>
<th>Acute oral toxicity estimate</th>
<th>LD50 (Rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute oral toxicity</td>
<td>LD50 (Rat): 480 - 554 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Acute inhalation toxicity</td>
<td>LC50 (Rat): 2.3 mg/l</td>
<td>Exposure time: 4 h</td>
</tr>
<tr>
<td></td>
<td>Test atmosphere: dust/mist</td>
<td></td>
</tr>
</tbody>
</table>

**Indoxacarb (ISO):**

<table>
<thead>
<tr>
<th>Type</th>
<th>Acute oral toxicity estimate</th>
<th>LD50 (Rat)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute oral toxicity</td>
<td>LD50 (Rat, female): 179 mg/kg</td>
<td>Symptoms: Loss of reflexes, Breathing difficulties, Tremors</td>
</tr>
<tr>
<td>Acute inhalation toxicity</td>
<td>LD50 (Rat, male): 843 mg/kg</td>
<td></td>
</tr>
<tr>
<td>Acute dermal toxicity</td>
<td>LD50 (Rat): &gt; 2,000 mg/kg</td>
<td></td>
</tr>
</tbody>
</table>

**1-Methoxy-2-propanol:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Acute oral toxicity estimate</th>
<th>LD50 (Rat): 4,016 mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute inhalation toxicity</td>
<td>LC50 (Mouse): &lt; 22.2 mg/l</td>
<td>Exposure time: 6 h</td>
</tr>
<tr>
<td></td>
<td>Test atmosphere: vapour</td>
<td></td>
</tr>
<tr>
<td>Acute dermal toxicity</td>
<td>LD50 (Rat): &gt; 2,000 mg/kg</td>
<td>Assessment: The substance or mixture has no acute dermal toxicity</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**

Not classified based on available information.
## Components:

### Permethrin (ISO):
- **Species**: Rabbit
- **Result**: No skin irritation

### Indoxacarb (ISO):
- **Result**: No skin irritation

### 1-Methoxy-2-propanol:
- **Species**: Rabbit
- **Result**: No skin irritation

### Serious eye damage/eye irritation
Not classified based on available information.

### Components:

### Permethrin (ISO):
- **Species**: Rabbit
- **Result**: No eye irritation

### Indoxacarb (ISO):
- **Result**: No eye irritation

### 1-Methoxy-2-propanol:
- **Species**: Rabbit
- **Result**: No eye irritation

### Respiratory or skin sensitisation

#### Skin sensitisation
May cause an allergic skin reaction.

### Components:

### Permethrin (ISO):
- **Test Type**: Buehler Test
- **Exposure routes**: Skin contact
- **Species**: Guinea pig
- **Result**: positive
- **Assessment**: Probability or evidence of skin sensitisation in humans

### Indoxacarb (ISO):
- **Test Type**: Maximisation Test
- **Species**: Guinea pig
SAFE DATA SHEET
according to Regulation (EC) No. 1907/2006

Indoxacarb / Permethrin Formulation

Version 2.0  Revision Date: 09/16/2019  SDS Number: 27885-00013  Date of last issue: 05.06.2018

Date of first issue: 04.11.2014

---

<table>
<thead>
<tr>
<th>Result</th>
<th>positive</th>
</tr>
</thead>
</table>

### 1-Methoxy-2-propanol:

<table>
<thead>
<tr>
<th>Test Type</th>
<th>Maximisation Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exposure routes</td>
<td>Skin contact</td>
</tr>
<tr>
<td>Species</td>
<td>Guinea pig</td>
</tr>
<tr>
<td>Result</td>
<td>negative</td>
</tr>
</tbody>
</table>

Germ cell mutagenicity

Not classified based on available information.

### Components:

#### Permethrin (ISO):

<table>
<thead>
<tr>
<th>Genotoxicity in vitro</th>
</tr>
</thead>
</table>
| 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 |
| Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)  
Result: negative |
| Test Type: Chromosome aberration test in vitro  
Result: positive |

<table>
<thead>
<tr>
<th>Genotoxicity in vivo</th>
</tr>
</thead>
</table>
| Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Mouse  
Result: negative |
| Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
Species: Mouse  
Result: negative |
| Test Type: Rodent dominant lethal test (germ cell) (in vivo)  
Species: Mouse  
Result: negative |
| Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
Species: Rat  
Application Route: Intraperitoneal injection  
Result: negative |
| Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
Species: Mouse |

---
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Indoxacarb / Permethrin Formulation

Application Route: Ingestion
Result: positive

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

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

Test Type: Chromosomal aberration
Test system: mammalian cells
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Test system: Chinese hamster ovary cells
Result: negative

Genotoxicity in vivo: Test Type: Micronucleus test
Species: Mouse
Cell type: Bone marrow
Result: negative

1-Methoxy-2-propanol:
Genotoxicity in vitro: Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Test Type: Chromosome aberration test in vitro
Result: negative

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

Test Type: In vitro sister chromatid exchange assay in mammalian cells
Result: equivocal

Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)
Method: OECD Test Guideline 482
Result: negative

Genotoxicity in vivo: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative

Carcinogenicity
Not classified based on available information.
Components:

Permethrin (ISO):

<table>
<thead>
<tr>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rat</td>
<td>negative</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Species</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse</td>
<td>negative</td>
</tr>
</tbody>
</table>

Indoxacarb (ISO):

<table>
<thead>
<tr>
<th>Species</th>
<th>Application Route</th>
<th>Exposure time</th>
<th>Frequency of Treatment</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rat, male and female</td>
<td>oral (feed)</td>
<td>2 Years</td>
<td>daily</td>
<td>negative</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Species</th>
<th>Application Route</th>
<th>Exposure time</th>
<th>Method</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse, male and female</td>
<td>oral (feed)</td>
<td>18 Months</td>
<td>OECD Test Guideline 453</td>
<td>negative</td>
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1-Methoxy-2-propanol:

<table>
<thead>
<tr>
<th>Species</th>
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<th>Exposure time</th>
<th>Method</th>
<th>Result</th>
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</thead>
<tbody>
<tr>
<td>Rat</td>
<td>inhalation (vapour)</td>
<td>2 Years</td>
<td>OECD Test Guideline 453</td>
<td>negative</td>
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</table>

Reproductive toxicity
Not classified based on available information.

Components:

Permethrin (ISO):

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

Effects on foetal development:
Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Result: negative

Indoxacarb (ISO):

Effects on fertility:
Test Type: Two-generation study
Species: Rat
Application Route: Oral
General Toxicity F1: NOAEL: 1.3 mg/kg body weight
Result: negative

Test Type: Two-generation study
Species: Rat
Application Route: Oral
General Toxicity - Parent: NOAEL: 1.3 mg/kg body weight
General Toxicity F1: NOAEL: > 6.7 mg/kg body weight
Result: Embryotoxic effects and adverse effects on the offspring were detected.

Effects on foetal development:

Test Type: Development
Species: Rat
Developmental Toxicity: NOAEL: 2 mg/kg body weight
Result: No teratogenic effects

Test Type: Development
Species: Rabbit
Application Route: Oral
Developmental Toxicity: NOAEL: 500 mg/kg body weight
Result: No adverse effects

Test Type: Development
Species: Rat
Application Route: Oral
Developmental Toxicity: NOAEL: 10 mg/kg body weight

Test Type: Development
Species: Rat
Application Route: Oral
Developmental Toxicity: LOAEL: 100 mg/kg body weight

1-Methoxy-2-propanol:

Effects on fertility:

Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: inhalation (vapour)
Method: OECD Test Guideline 416
Result: negative

Effects on foetal development:

Test Type: Embryo-foetal development
Species: Rat
Application Route: inhalation (vapour)
Result: negative

STOT - single exposure
May cause drowsiness or dizziness.

Components:

1-Methoxy-2-propanol:
Assessment: May cause drowsiness or dizziness.
**SAFETY DATA SHEET**
according to Regulation (EC) No. 1907/2006

**Indoxacarb / Permethrin Formulation**

<table>
<thead>
<tr>
<th>Version</th>
<th>Revision Date:</th>
<th>SDS Number:</th>
<th>Date of last issue:</th>
<th>Date of first issue:</th>
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<td>2.0</td>
<td>09/16/2019</td>
<td>27885-00013</td>
<td>05.06.2018</td>
<td>04.11.2014</td>
</tr>
</tbody>
</table>

**STOT - repeated exposure**
Causes damage to organs through prolonged or repeated exposure.

**Components:**

**Indoxacarb (ISO):**
- **Target Organs**: Blood, Nervous system, Heart
- **Assessment**: Causes damage to organs through prolonged or repeated exposure.

**Repeated dose toxicity**

**Components:**

**Permethrin (ISO):**
- **Species**: Rat
  - **NOAEL**: 0.2201 mg/l
  - **Application Route**: Inhalation
  - **Exposure time**: 90 Days

<table>
<thead>
<tr>
<th>Species</th>
<th>NOAEL</th>
<th>Application Route</th>
<th>Exposure time</th>
<th>Target Organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rat</td>
<td>0.2201 mg/l</td>
<td>Inhalation</td>
<td>90 Days</td>
<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Species</th>
<th>NOAEL</th>
<th>Application Route</th>
<th>Exposure time</th>
<th>Target Organs</th>
</tr>
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<tr>
<td>Rat</td>
<td>175 mg/kg</td>
<td>Ingestion</td>
<td>90 Days</td>
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**Indoxacarb (ISO):**
- **Species**: Rat, male and female
  - **NOAEL**: 1.7 mg/kg
  - **LOAEL**: 4.1 mg/kg
  - **Application Route**: Oral
  - **Exposure time**: 90 d
  - **Target Organs**: Blood, Central nervous system

<table>
<thead>
<tr>
<th>Species</th>
<th>NOAEL</th>
<th>Application Route</th>
<th>Exposure time</th>
<th>Target Organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rat, male and female</td>
<td>1.7 mg/kg</td>
<td>Oral</td>
<td>90 d</td>
<td>Blood, Central nervous system</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
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<th>Application Route</th>
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<th>Target Organs</th>
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<tbody>
<tr>
<td>Rat, male and female</td>
<td>50 mg/kg</td>
<td>Dermal</td>
<td>28 d</td>
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<table>
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<th>Application Route</th>
<th>Exposure time</th>
<th>Target Organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rat</td>
<td>4.6 mg/m3</td>
<td>Inhalation</td>
<td>4 Weeks</td>
<td>Blood, Lungs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Species</th>
<th>NOAEL</th>
<th>Application Route</th>
<th>Exposure time</th>
<th>Target Organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rat</td>
<td>23 mg/m3</td>
<td>Inhalation</td>
<td>1 yr</td>
<td>Blood</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Species</th>
<th>NOAEL</th>
<th>Application Route</th>
<th>Exposure time</th>
<th>Target Organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rat, male and female</td>
<td>4.6 mg/m3</td>
<td>Inhalation</td>
<td>4 Weeks</td>
<td>Blood, Lungs</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Species</th>
<th>NOAEL</th>
<th>Application Route</th>
<th>Exposure time</th>
<th>Target Organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rat</td>
<td>1 mg/kg</td>
<td>Oral</td>
<td>1 yr</td>
<td>Blood</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Species</th>
<th>NOAEL</th>
<th>Application Route</th>
<th>Exposure time</th>
<th>Target Organs</th>
</tr>
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<tbody>
<tr>
<td>Rat</td>
<td>2 mg/kg</td>
<td>Oral</td>
<td>1 yr</td>
<td>Blood</td>
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<thead>
<tr>
<th>Species</th>
<th>NOAEL</th>
<th>Application Route</th>
<th>Exposure time</th>
<th>Target Organs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rat</td>
<td>1 mg/kg</td>
<td>Oral</td>
<td>1 yr</td>
<td>Blood</td>
</tr>
</tbody>
</table>
Indoxacarb / Permethrin Formulation

Species          : Dog
NOAEL            : 1 mg/kg
LOAEL            : 2 mg/kg
Application Route: Oral
Exposure time    : 1 yr
Target Organs    : Blood

Species          : Mouse
NOAEL            : 3 mg/kg
LOAEL            : 14 mg/kg
Application Route: oral (feed)
Exposure time    : 18 Months
Target Organs    : Nervous system, Heart

1-Methoxy-2-propanol:
Species          : Rat
NOAEL            : 919 mg/kg
Application Route: Ingestion
Exposure time    : 35 Days

Species          : Rat
NOAEL            : 1.1 mg/l
Application Route: inhalation (vapour)
Exposure time    : 2 yr
Method            : OECD Test Guideline 453

Species          : Rabbit
NOAEL            : 1,838 mg/kg
Application Route: Skin contact
Exposure time    : 90 Days

Aspiration toxicity
Not classified based on available information.

Experience with human exposure

Components:
Indoxacarb (ISO):
General Information : No human information is available.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Permethrin (ISO):
Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.00079 mg/l
Exposure time : 96 h
Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.0001 mg/l
### aquatic invertebrates

| Exposure time: | 48 h |

### Toxicity to algae/aquatic plants

| EC50 (Pseudokirchneriella subcapitata (green algae)) | > 1.13 mg/l |
| Exposure time: | 72 h |

| EC10 (Pseudokirchneriella subcapitata (green algae)) | 0.0023 mg/l |
| Exposure time: | 72 h |

**M-Factor (Acute aquatic toxicity):** 10,000

### Toxicity to microorganisms

| EC50 | > 1,000 mg/l |
| Exposure time: | 3 h |

### Toxicity to fish (Chronic toxicity)

| NOEC | 0.00041 mg/l |
| Exposure time: | 35 d |
| Species: | Danio rerio (zebra fish) |
| Method: | OECD Test Guideline 210 |

### Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

| NOEC | 0.0047 µg/l |
| Exposure time: | 21 d |
| Species: | Daphnia magna (Water flea) |
| Method: | OECD Test Guideline 211 |

**M-Factor (Chronic aquatic toxicity):** 10,000

### Indoxacarb (ISO):

#### Toxicity to fish

| LC50 (Oncorhynchus mykiss (rainbow trout)) | 0.65 mg/l |
| Exposure time: | 96 h |
| Method: | OECD Test Guideline 203 |

| LC50 (Lepomis macrochirus (Bluegill sunfish)) | 0.9 mg/l |
| Exposure time: | 96 h |
| Method: | OECD Test Guideline 203 |

#### Toxicity to daphnia and other aquatic invertebrates

| EC50 (Daphnia magna (Water flea)) | 0.6 mg/l |
| Exposure time: | 48 h |
| Method: | OECD Test Guideline 202 |

#### Toxicity to algae/aquatic plants

| EC50 (Pseudokirchneriella subcapitata (green algae)) | > 0.6 mg/l |
| Exposure time: | 72 h |

| NOEC (Pseudokirchneriella subcapitata (green algae)) | 0.46 mg/l |
| Exposure time: | 72 h |

**M-Factor (Acute aquatic toxicity):** 1

#### Toxicity to daphnia and other aquatic invertebrates

| NOEC | 0.09 mg/l |
### Aquatic Invertebrates (Chronic Toxicity)

- **Species:** Daphnia magna (Water flea)
- **Exposure time:** 21 d
- **M-Factor (Chronic aquatic toxicity):** 1

### 1-Methoxy-2-propanol:

- **Toxicity to fish:**
  - **LC50 (Leuciscus idus (Golden orfe)):** 6,812 mg/l
  - **Exposure time:** 96 h
  - **Method:** DIN 38412

- **Toxicity to daphnia and other aquatic invertebrates:**
  - **EC50 (Daphnia magna (Water flea)):** 23,300 mg/l
  - **Exposure time:** 48 h

- **Toxicity to algae/aquatic plants:**
  - **ErC50 (Skeletonema costatum (marine diatom)):** 6,745 mg/l
  - **Exposure time:** 72 h
  - **Method:** ISO 10253

- **Toxicity to microorganisms:**
  - **IC50:** > 1,000 mg/l
  - **Exposure time:** 3 h
  - **Method:** OECD Test Guideline 209

### 12.2 Persistence and Degradability

#### Components:

- **Permethrin (ISO):**
  - **Biodegradability:**
    - **Result:** Not readily biodegradable.
    - **Method:** OECD Test Guideline 301F

- **1-Methoxy-2-propanol:**
  - **Biodegradability:**
    - **Result:** Readily biodegradable.
    - **Biodegradation:** 96 %
    - **Exposure time:** 28 d
    - **Method:** OECD Test Guideline 301E

### 12.3 Bioaccumulative Potential

#### Components:

- **Permethrin (ISO):**
  - **Bioaccumulation:**
    - **Species:** Lepomis macrochirus (Bluegill sunfish)
    - **Bioconcentration factor (BCF):** 570
  - **Partition coefficient: n-octanol/water:**
    - **Log Pow:** 4.67

- **Indoxacarb (ISO):**
  - **Partition coefficient: n-octanol/water:**
    - **Log Pow:** 4.65

- **1-Methoxy-2-propanol:**
  - **Partition coefficient: n-octanol/water:**
    - **Log Pow:** < 1
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Indoxacarb / Permethrin Formulation

Version 2.0
Revision Date: 09/16/2019
SDS Number: 27885-00013
Date of last issue: 05.06.2018
Date of first issue: 04.11.2014

12.4 Mobility in soil

Components:
Indoxacarb (ISO):
Distribution among environmental compartments: log Koc: 3.9

12.5 Results of PBT and vPvB assessment
Not relevant

12.6 Other adverse effects
No data available

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

<table>
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<tr>
<th>ADN</th>
<th>UN 3092</th>
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<tr>
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<td>UN 3092</td>
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<tr>
<td>IATA</td>
<td>UN 3092</td>
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</table>

14.2 UN proper shipping name

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<tr>
<th>ADN</th>
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<tr>
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<td>1-METHOXY-2-PROPA NOL, SOLUTION (Permethrin (ISO), Indoxacarb (ISO))</td>
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<tr>
<td>IATA</td>
<td>1-Methoxy-2-propanol, solution</td>
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Indoxacarb / Permethrin Formulation

14.3 Transport hazard class(es)

| ADN  | : 3 |
| ADR  | : 3 |
| RID  | : 3 |
| IMDG | : 3 |
| IATA | : 3 |

14.4 Packing group

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<td>Tunnel restriction code : (D/E)</td>
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<table>
<thead>
<tr>
<th>IATA (Cargo)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packing instruction (cargo aircraft) : 366</td>
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<tr>
<td>Packing instruction (LQ) : Y344</td>
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<tr>
<td>Packing group : III</td>
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<tr>
<td>Labels : Flammable Liquids</td>
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</table>

<table>
<thead>
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</thead>
<tbody>
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<tr>
<td>Packing instruction (LQ) : Y344</td>
</tr>
<tr>
<td>Packing group : III</td>
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<tr>
<td>Labels : Flammable Liquids</td>
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14.5 Environmental hazards

<table>
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<tbody>
<tr>
<td>Environmentally hazardous : yes</td>
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</thead>
<tbody>
<tr>
<td>Environmentally hazardous : yes</td>
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</table>

| RID  |
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Indoxacarb / Permethrin Formulation

Version 2.0  Revision Date: 09/16/2019  SDS Number: 27885-00013  Date of last issue: 05.06.2018
Date of first issue: 04.11.2014

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable
REACH - List of substances subject to authorisation (Annex XIV) : Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

<table>
<thead>
<tr>
<th>E1</th>
<th>ENVIRONMENTAL HAZARDS</th>
<th>Quantity 1</th>
<th>Quantity 2</th>
</tr>
</thead>
<tbody>
<tr>
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<td>200 t</td>
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</table>

<table>
<thead>
<tr>
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<th>FLAMMABLE LIQUIDS</th>
<th>Quantity 1</th>
<th>Quantity 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>5,000 t</td>
<td>50,000 t</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other regulations:
Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.
Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:
AICS : not determined
DSL : not determined
IECSC : not determined
SAFETY DATA SHEET  
according to Regulation (EC) No. 1907/2006  

Indoxacarb / Permethrin Formulation  

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  
H226 : Flammable liquid and vapour.  
H301 : Toxic if swallowed.  
H302 : Harmful if swallowed.  
H317 : May cause an allergic skin reaction.  
H332 : Harmful if inhaled.  
H336 : May cause drowsiness or dizziness.  
H372 : Causes damage to organs through prolonged or repeated exposure.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.  

Full text of other abbreviations  
Acute Tox. : Acute toxicity  
Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Flam. Liq. : Flammable liquids  
Skin Sens. : Skin sensitisation  
STOT RE : Specific target organ toxicity - repeated exposure  
STOT SE : Specific target organ toxicity - single exposure  
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits  
2000/39/EC / TWA : Limit Value - eight hours  
2000/39/EC / STEL : Short term exposure limit  
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)  
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)  

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; AICS - Australian Inventory of Chemical Substances; 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 - 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 Organisa-
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

Indoxacarb / Permethrin Formulation

Version 2.0  Revision Date: 09/16/2019  SDS Number: 27885-00013  Date of last issue: 05.06.2018

Further information


Classification of the mixture:

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Code</th>
<th>Classification procedure</th>
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<tbody>
<tr>
<td>Flam. Liq. 3</td>
<td>H226</td>
<td>Based on product data or assessment</td>
</tr>
<tr>
<td>Acute Tox. 4</td>
<td>H302</td>
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Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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