

**Amitraz (12.5%) EC Formulation**

|         |                |                |                                 |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number:    | Date of last issue: 08.12.2025  |
| 4.0     | 02.04.2026     | 11182735-00008 | Date of first issue: 21.03.2023 |

**SECTION 1: IDENTIFICATION**

Product name : Amitraz (12.5%) EC Formulation

Other means of identification : COOPERS AMITIK EC CATTLE AND PIG SPRAY (45044)

**Manufacturer or supplier's details**

Company : Intervet Australia Pty Limited (trading as MSD Animal Health)

Address : Building A - Level 1/26 Talavera Rd  
Macquarie Park NSW, Australia 2113

Telephone : 1 800 033 461

Emergency telephone number : Poisons Information Centre: Phone 13 11 26

E-mail address : EHSDATASTEWARD@msd.com

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

Recommended use : Veterinary product

Restrictions on use : Not applicable

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Skin sensitisation : Category 1

Germ cell mutagenicity : Category 2

Reproductive toxicity : Category 2

Specific target organ toxicity - single exposure : Category 3

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

Aspiration hazard : Category 1

**GHS label elements**

Hazard pictograms :  

Signal word : Danger

Hazard statements : H304 May be fatal if swallowed and enters airways.  
H317 May cause an allergic skin reaction.

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|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                | H336 May cause drowsiness or dizziness.<br>H341 Suspected of causing genetic defects.<br>H361 Suspected of damaging fertility or the unborn child.<br>H373 May cause damage to organs (Liver, Central nervous system) through prolonged or repeated exposure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Supplemental Hazard Statements | : AUH066 Repeated exposure may cause skin dryness or cracking.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Precautionary statements       | :<br><b>Prevention:</b><br>P201 Obtain special instructions before use.<br>P202 Do not handle until all safety precautions have been read and understood.<br>P260 Do not breathe mist or vapours.<br>P271 Use only outdoors or in a well-ventilated area.<br>P272 Contaminated work clothing should not be allowed out of the workplace.<br>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.<br><br><b>Response:</b><br>P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.<br>P302 + P352 IF ON SKIN: Wash with plenty of water.<br>P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.<br>P308 + P313 IF exposed or concerned: Get medical advice/ attention.<br>P331 Do NOT induce vomiting.<br>P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.<br><br><b>Storage:</b><br>P405 Store locked up.<br><br><b>Disposal:</b><br>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.     | Concentration (% w/w) |
|-----------------------------------------------|-------------|-----------------------|
| Hydrocarbons, C10, aromatics, <1% naphthalene | 64742-94-5  | >= 60 -<= 100         |
| 4-Nonylphenol, branched, ethoxylated          | 127087-87-0 | >= 10 -< 30           |

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|                                                                             |            |             |
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| amitraz (ISO)                                                               | 33089-61-1 | >= 10 -< 30 |
| 7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate | 2386-87-0  | >= 1 -< 10  |

## SECTION 4. FIRST AID MEASURES

|                                                             |                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice                                              | : In the case of accident or if you feel unwell, seek medical advice immediately.<br>When symptoms persist or in all cases of doubt seek medical advice.                                                                                                                                                                                                      |
| If inhaled                                                  | : If inhaled, remove to fresh air.<br>Get medical attention.                                                                                                                                                                                                                                                                                                  |
| In case of skin contact                                     | : In case of contact, immediately flush skin with plenty of water.<br>Remove contaminated clothing and shoes.<br>Get medical attention.<br>Wash clothing before reuse.<br>Thoroughly clean shoes before reuse.                                                                                                                                                |
| In case of eye contact                                      | : Flush eyes with water as a precaution.<br>Get medical attention if irritation develops and persists.                                                                                                                                                                                                                                                        |
| If swallowed                                                | : If swallowed, DO NOT induce vomiting.<br>If vomiting occurs have person lean forward.<br>Call a physician or poison control centre immediately.<br>Rinse mouth thoroughly with water.<br>Never give anything by mouth to an unconscious person.                                                                                                             |
| Most important symptoms and effects, both acute and delayed | : May be fatal if swallowed and enters airways.<br>May cause an allergic skin reaction.<br>May cause drowsiness or dizziness.<br>Suspected of causing genetic defects.<br>Suspected of damaging fertility or the unborn child.<br>May cause damage to organs through prolonged or repeated exposure.<br>Repeated exposure may cause skin dryness or cracking. |
| 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).                                                                                                                                                                                 |
| Notes to physician                                          | : Treat symptomatically and supportively.                                                                                                                                                                                                                                                                                                                     |

## SECTION 5. FIREFIGHTING MEASURES

|                                       |                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------------------------|
| Suitable extinguishing media          | : Water spray<br>Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical |
| Unsuitable extinguishing media        | : None known.                                                                                |
| Specific hazards during fire-fighting | : Exposure to combustion products may be a hazard to health.                                 |
| Hazardous combustion products         | : Carbon oxides                                                                              |

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|                                               |                                                                                                                                                                                                                                                   |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Specific extinguishing methods                | : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use water spray to cool unopened containers.<br>Remove undamaged containers from fire area if it is safe to do so.<br>Evacuate area. |
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus.<br>Use personal protective equipment.                                                                                                                                            |
| Hazchem Code                                  | : •3Z                                                                                                                                                                                                                                             |

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**SECTION 6. ACCIDENTAL RELEASE MEASURES**

|                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.<br>Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Environmental precautions                                           | : Avoid release to the environment.<br>Prevent further leakage or spillage if safe to do so.<br>Prevent spreading over a wide area (e.g. by containment or oil barriers).<br>Retain and dispose of contaminated wash water.<br>Local authorities should be advised if significant spillages cannot be contained.                                                                                                                                                                                                                                                                                                                            |
| Methods and materials for containment and cleaning up               | : Soak up with inert absorbent material.<br>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.<br>Clean up remaining materials from spill with suitable absorbent.<br>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.<br>Sections 13 and 15 of this SDS provide information regarding certain local or national requirements. |

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**SECTION 7. HANDLING AND STORAGE**

|                         |                                                                                                                                                                                                                                                  |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical measures      | : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.                                                                                                                                                                  |
| Local/Total ventilation | : If sufficient ventilation is unavailable, use with local exhaust ventilation.                                                                                                                                                                  |
| Advice on safe handling | : Do not get on skin or clothing.<br>Do not breathe mist or vapours.<br>Do not swallow.<br>Avoid contact with eyes.<br>Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- |

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- assessment  
Keep container tightly closed.  
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.
- Conditions for safe storage : 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.
- Materials to avoid : Do not store with the following product types:  
Strong oxidizing agents

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

| Components                                    | CAS-No.    | Value type<br>(Form of exposure)   | Control parameters / Permissible concentration | Basis    |
|-----------------------------------------------|------------|------------------------------------|------------------------------------------------|----------|
| Hydrocarbons, C10, aromatics, <1% naphthalene | 64742-94-5 | TWA (Mist)                         | 5 mg/m <sup>3</sup>                            | AU OEL   |
|                                               |            | TWA (Inhalable particulate matter) | 5 mg/m <sup>3</sup>                            | ACGIH    |
| amitraz (ISO)                                 | 33089-61-1 | TWA                                | 10 µg/m <sup>3</sup> (OEB 3)                   | Internal |
|                                               |            | Wipe limit                         | 1250 µg/100 cm <sup>2</sup>                    | Internal |

- 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.

#### Personal protective equipment

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|                          |   |                                                                                                                                                                                                                                                                                                                |
|--------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                                                                                                                                                                                                                                                                  |
| Hand protection          | : |                                                                                                                                                                                                                                                                                                                |
| Material                 | : | Chemical-resistant gloves                                                                                                                                                                                                                                                                                      |
| Remarks                  | : | Consider double gloving.                                                                                                                                                                                                                                                                                       |
| Eye protection           | : | Wear safety glasses with side shields or goggles.<br>If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles.<br>Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols. |
| Skin and body protection | : | Work uniform or laboratory coat.<br>Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.<br>Use appropriate degowning techniques to remove potentially contaminated clothing.                    |

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|                                                  |   |                   |
|--------------------------------------------------|---|-------------------|
| Appearance                                       | : | liquid            |
| Colour                                           | : | No data available |
| Odour                                            | : | characteristic    |
| 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                                      | : | No data available |
| Evaporation rate                                 | : | No data available |
| Flammability (solid, gas)                        | : | Not applicable    |
| Flammability (liquids)                           | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapour pressure                                  | : | No data available |

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|                                        |                                                            |
|----------------------------------------|------------------------------------------------------------|
| Relative vapour density                | : No data available                                        |
| Relative density                       | : No data available                                        |
| Density                                | : No data available                                        |
| Solubility(ies)                        |                                                            |
| Water solubility                       | : No data available                                        |
| Partition coefficient: n-octanol/water | : Not applicable                                           |
| 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. |
| Molecular weight                       | : No data available                                        |
| Particle characteristics               |                                                            |
| Particle size                          | : Not applicable                                           |

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**SECTION 10. STABILITY AND REACTIVITY**

|                                    |                                                  |
|------------------------------------|--------------------------------------------------|
| Reactivity                         | : Not classified as a reactivity hazard.         |
| Chemical stability                 | : Stable under normal conditions.                |
| Possibility of hazardous reactions | : Can react with strong oxidizing agents.        |
| Conditions to avoid                | : None known.                                    |
| Incompatible materials             | : Oxidizing agents                               |
| Hazardous decomposition products   | : No hazardous decomposition products are known. |

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**SECTION 11. TOXICOLOGICAL INFORMATION**

|                 |                                                          |
|-----------------|----------------------------------------------------------|
| Exposure routes | : Inhalation<br>Skin contact<br>Ingestion<br>Eye contact |
|-----------------|----------------------------------------------------------|

**Acute toxicity**

Not classified based on available information.

**Product:**

|                     |                                          |
|---------------------|------------------------------------------|
| Acute oral toxicity | : Acute toxicity estimate: > 2,000 mg/kg |
|---------------------|------------------------------------------|

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Method: Calculation method

**Components:****Hydrocarbons, C10, aromatics, <1% naphthalene:**

|                           |   |                                                                                                                                                                                       |
|---------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : | LD50 (Rat): > 5,000 mg/kg<br>Method: OECD Test Guideline 420<br>Remarks: Based on data from similar materials                                                                         |
| Acute inhalation toxicity | : | LC50 (Rat): > 4.778 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 403<br>Remarks: Based on data from similar materials                      |
| Acute dermal toxicity     | : | LD50 (Rabbit): > 2,000 mg/kg<br>Method: OECD Test Guideline 402<br>Assessment: The substance or mixture has no acute dermal toxicity<br>Remarks: Based on data from similar materials |

**4-Nonylphenol, branched, ethoxylated:**

|                     |   |                           |
|---------------------|---|---------------------------|
| Acute oral toxicity | : | LD50 (Rat): > 2,000 mg/kg |
|---------------------|---|---------------------------|

**amitraz (ISO):**

|                           |   |                                                                                          |
|---------------------------|---|------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : | LD50 (Rat): > 400 mg/kg<br>LD50 (Mouse): > 1,085 mg/kg<br>LD50 (Guinea pig): > 400 mg/kg |
| Acute inhalation toxicity | : | Remarks: No data available                                                               |
| Acute dermal toxicity     | : | LD50 (Rat): > 1,600 mg/kg                                                                |

**7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:**

|                           |   |                                                                                                                                                                                          |
|---------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute oral toxicity       | : | LD50 (Rat, male): > 2,959 - 5,000 mg/kg<br>Method: OECD Test Guideline 401                                                                                                               |
| Acute inhalation toxicity | : | LC50 (Rat): >= 5.19 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: OECD Test Guideline 436<br>Assessment: The substance or mixture has no acute inhalation toxicity |
| Acute dermal toxicity     | : | LD50 (Rat): > 2,000 mg/kg<br>Method: OECD Test Guideline 402<br>Assessment: The substance or mixture has no acute dermal toxicity                                                        |

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**Skin corrosion/irritation**

|| Repeated exposure may cause skin dryness or cracking.

**Components:****Hydrocarbons, C10, aromatics, <1% naphthalene:**

|| Assessment : Repeated exposure may cause skin dryness or cracking.

**4-Nonylphenol, branched, ethoxylated:**

|         |                                        |
|---------|----------------------------------------|
| Species | : Rabbit                               |
| Method  | : OECD Test Guideline 404              |
| Result  | : No skin irritation                   |
| Remarks | : Based on data from similar materials |

**amitraz (ISO):**

|         |                      |
|---------|----------------------|
| Species | : Rabbit             |
| Result  | : No skin irritation |

**7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:**

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

**Serious eye damage/eye irritation**

|| Not classified based on available information.

**Components:****Hydrocarbons, C10, aromatics, <1% naphthalene:**

|         |                                        |
|---------|----------------------------------------|
| Species | : Rabbit                               |
| Result  | : No eye irritation                    |
| Remarks | : Based on data from similar materials |

**4-Nonylphenol, branched, ethoxylated:**

|         |                                        |
|---------|----------------------------------------|
| Species | : Rabbit                               |
| Result  | : No eye irritation                    |
| Method  | : OECD Test Guideline 405              |
| Remarks | : Based on data from similar materials |

**amitraz (ISO):**

|         |                     |
|---------|---------------------|
| Species | : Rabbit            |
| Result  | : No eye irritation |

**7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:**

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

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**Respiratory or skin sensitisation****Skin sensitisation**

|| May cause an allergic skin reaction.

**Respiratory sensitisation**

|| Not classified based on available information.

**Components:****Hydrocarbons, C10, aromatics, <1% naphthalene:**

|                 |                                        |
|-----------------|----------------------------------------|
| Test Type       | : Maximisation Test                    |
| Exposure routes | : Skin contact                         |
| Species         | : Guinea pig                           |
| Result          | : negative                             |
| Remarks         | : Based on data from similar materials |

**4-Nonylphenol, branched, ethoxylated:**

|                 |                                        |
|-----------------|----------------------------------------|
| Test Type       | : Maximisation Test                    |
| Exposure routes | : Skin contact                         |
| Species         | : Guinea pig                           |
| Result          | : negative                             |
| Remarks         | : Based on data from similar materials |

**amitraz (ISO):**

|                 |                          |
|-----------------|--------------------------|
| Test Type       | : Maximisation Test      |
| Exposure routes | : Dermal                 |
| Species         | : Guinea pig             |
| Result          | : Not a skin sensitizer. |

**7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:**

|                 |                     |
|-----------------|---------------------|
| Test Type       | : Maximisation Test |
| Exposure routes | : Skin contact      |
| Species         | : Guinea pig        |
| Result          | : positive          |

|| Assessment : Probability or evidence of skin sensitisation in humans

**Chronic toxicity****Germ cell mutagenicity**

|| Suspected of causing genetic defects.

**Components:****Hydrocarbons, C10, aromatics, <1% naphthalene:**

|                       |                                                                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vitro | : Test Type: In vitro sister chromatid exchange assay in mammalian cells<br>Result: negative<br>Remarks: Based on data from similar materials |
| Genotoxicity in vivo  | : Test Type: Mutagenicity (in vivo mammalian bone-marrow                                                                                      |

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cytogenetic test, chromosomal analysis)  
Species: Rat  
Application Route: inhalation (vapour)  
Result: negative  
Remarks: Based on data from similar materials

**4-Nonylphenol, branched, ethoxylated:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative  
Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative  
Remarks: Based on data from similar materials

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

**amitraz (ISO):**

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

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

**7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:**

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: positive

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

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

Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)  
Result: positive

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|-------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vivo                | : | Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo<br>Species: Rat<br>Application Route: Ingestion<br>Method: OECD Test Guideline 486<br>Result: negative<br><br>Test Type: Micronucleus test<br>Species: Mouse<br>Application Route: Intraperitoneal injection<br>Result: negative<br><br>Test Type: Transgenic rodent somatic cell gene mutation assay<br>Species: Mouse<br>Application Route: Ingestion<br>Method: OECD Test Guideline 488<br>Result: positive |
| Germ cell mutagenicity - Assessment | : | Positive result(s) from in vivo mammalian somatic cell mutagenicity tests.                                                                                                                                                                                                                                                                                                                                                                                                                        |

**Carcinogenicity**

Not classified based on available information.

**Components:****amitraz (ISO):**

|                   |   |                           |
|-------------------|---|---------------------------|
| Species           | : | Rat                       |
| Application Route | : | Oral                      |
| Exposure time     | : | 2 Years                   |
| NOAEL             | : | > 10.18 mg/kg body weight |
| Result            | : | negative                  |

|               |   |                       |
|---------------|---|-----------------------|
| Species       | : | Mouse                 |
| Exposure time | : | 2 Years               |
| LOAEL         | : | 2.3 mg/kg body weight |
| Result        | : | positive              |
| Target Organs | : | Liver, Stomach        |

**7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:**

|                   |   |              |
|-------------------|---|--------------|
| Species           | : | Mouse        |
| Application Route | : | Skin contact |
| Exposure time     | : | 29 Months    |
| Result            | : | negative     |

**Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

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**Components:****Hydrocarbons, C10, aromatics, <1% naphthalene:**

|                               |   |                                                                                                                                                                                        |
|-------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Effects on fertility          | : | Test Type: Three-generation reproduction toxicity study<br>Species: Rat<br>Application Route: inhalation (vapour)<br>Result: negative<br>Remarks: Based on data from similar materials |
| Effects on foetal development | : | Test Type: Embryo-foetal development<br>Species: Rat<br>Application Route: Ingestion<br>Result: negative<br>Remarks: Based on data from similar materials                              |

**4-Nonylphenol, branched, ethoxylated:**

|                                    |   |                                                                                                                        |
|------------------------------------|---|------------------------------------------------------------------------------------------------------------------------|
| Reproductive toxicity - Assessment | : | Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments. |
|------------------------------------|---|------------------------------------------------------------------------------------------------------------------------|

**amitraz (ISO):**

|                               |   |                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Effects on fertility          | : | Test Type: Three-generation reproduction toxicity study<br>Species: Rat<br>Application Route: Oral<br>Fertility: NOAEL: > 4.8 mg/kg body weight<br>Result: No significant adverse effects were reported                                                                                                                                                                                 |
| Effects on foetal development | : | Test Type: Embryo-foetal development<br>Species: Rat<br>Application Route: Oral<br>Developmental Toxicity: NOAEL: 3 mg/kg body weight<br>Remarks: No significant adverse effects were reported<br><br>Test Type: Embryo-foetal development<br>Species: Rabbit<br>Application Route: Oral<br>Developmental Toxicity: NOAEL: 5 mg/kg body weight<br>Result: Effects on foetal development |

**7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:**

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

**STOT - single exposure**

|  |                                    |
|--|------------------------------------|
|  | May cause drowsiness or dizziness. |
|--|------------------------------------|

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**Components:****Hydrocarbons, C10, aromatics, <1% naphthalene:**

|            |                                        |
|------------|----------------------------------------|
| Assessment | : May cause drowsiness or dizziness.   |
| Remarks    | : Based on data from similar materials |

**STOT - repeated exposure**

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

**Components:****amitraz (ISO):**

|               |                                                                      |
|---------------|----------------------------------------------------------------------|
| Target Organs | : Liver, Central nervous system                                      |
| Assessment    | : May cause damage to organs through prolonged or repeated exposure. |

**7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:**

|                 |                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------|
| Exposure routes | : Ingestion                                                                                        |
| Target Organs   | : nasal cavity                                                                                     |
| Assessment      | : Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw. |

**Repeated dose toxicity****Components:****Hydrocarbons, C10, aromatics, <1% naphthalene:**

|                   |                                        |
|-------------------|----------------------------------------|
| Species           | : Rat                                  |
| NOAEL             | : 300 mg/kg                            |
| Application Route | : Ingestion                            |
| Exposure time     | : 13 Weeks                             |
| Remarks           | : Based on data from similar materials |

**4-Nonylphenol, branched, ethoxylated:**

|                   |                                        |
|-------------------|----------------------------------------|
| Species           | : Rat                                  |
| LOAEL             | : 150 mg/kg                            |
| Application Route | : Ingestion                            |
| Exposure time     | : 90 Days                              |
| Method            | : OPPTS 870.3100                       |
| Remarks           | : Based on data from similar materials |

**amitraz (ISO):**

|                   |           |
|-------------------|-----------|
| Species           | : Mouse   |
| NOAEL             | : 3 mg/kg |
| Application Route | : Oral    |
| Exposure time     | : 90 Days |
| Target Organs     | : Liver   |

|         |       |
|---------|-------|
| Species | : Dog |
|---------|-------|

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|                   |                                 |
|-------------------|---------------------------------|
| NOAEL             | : 0.25 mg/kg                    |
| Application Route | : Oral                          |
| Exposure time     | : 90 Days                       |
| Target Organs     | : Central nervous system, Liver |

**7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:**

|                   |                           |
|-------------------|---------------------------|
| Species           | : Rat                     |
| NOAEL             | : 5 mg/kg                 |
| LOAEL             | : 50 mg/kg                |
| Application Route | : Ingestion               |
| Exposure time     | : 90 Days                 |
| Method            | : OECD Test Guideline 408 |

**Aspiration toxicity**

May be fatal if swallowed and enters airways.

**Components:****Hydrocarbons, C10, aromatics, <1% naphthalene:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

**Experience with human exposure****Components:****amitraz (ISO):**

|           |                                         |
|-----------|-----------------------------------------|
| Ingestion | : Target Organs: Central nervous system |
|-----------|-----------------------------------------|

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****Hydrocarbons, C10, aromatics, <1% naphthalene:**

|                                                     |                                                                                                                                                                                                                    |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l<br>Exposure time: 96 h<br>Test substance: Water Accommodated Fraction<br>Method: OECD Test Guideline 203<br>Remarks: Based on data from similar materials |
| Toxicity to daphnia and other aquatic invertebrates | : EL50 (Daphnia magna (Water flea)): 3 - 10 mg/l<br>Exposure time: 48 h<br>Test substance: Water Accommodated Fraction<br>Method: OECD Test Guideline 202<br>Remarks: Based on data from similar materials         |
| Toxicity to algae/aquatic plants                    | : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1 - 3 mg/l<br>Exposure time: 72 h                                                                                                                        |

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Test substance: Water Accommodated Fraction  
 Method: OECD Test Guideline 201  
 Remarks: Based on data from similar materials

**4-Nonylphenol, branched, ethoxylated:**

|                                                                        |   |                                                                                                                                                                           |
|------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                                       | : | LC50 (Pimephales promelas (fathead minnow)): > 0.1 - 1 mg/l<br>Exposure time: 96 h<br>Remarks: Based on data from similar materials                                       |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 (Ceriodaphnia dubia (water flea)): > 0.1 - 1 mg/l<br>Exposure time: 48 h<br>Remarks: Based on data from similar materials                                            |
| Toxicity to algae/aquatic plants                                       | : | ErC50 (Selenastrum capricornutum (green algae)): > 1 - 10 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>Remarks: Based on data from similar materials |
|                                                                        |   | EC10 (Selenastrum capricornutum (green algae)): > 1 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>Remarks: Based on data from similar materials       |
| Toxicity to fish (Chronic toxicity)                                    | : | NOEC (Oryzias latipes (Japanese medaka)): > 0.1 - 1 mg/l<br>Exposure time: 100 d<br>Remarks: Based on data from similar materials                                         |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Mysidopsis bahia (opossum shrimp)): > 0.001 - 0.01 mg/l<br>Exposure time: 28 d<br>Remarks: Based on data from similar materials                                     |

**amitraz (ISO):**

|                                                                        |   |                                                                                        |
|------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------|
| Toxicity to fish                                                       | : | LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.45 mg/l<br>Exposure time: 96 h        |
| Toxicity to daphnia and other aquatic invertebrates                    | : | EC50 (Daphnia magna (Water flea)): 0.035 mg/l<br>Exposure time: 48 h                   |
| Toxicity to algae/aquatic plants                                       | : | NOEC (Pseudokirchneriella subcapitata (green algae)): 0.04 mg/l<br>Exposure time: 91 h |
| Toxicity to fish (Chronic toxicity)                                    | : | NOEC (Pimephales promelas (fathead minnow)): 0.00148 mg/l<br>Exposure time: 32 d       |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia magna (Water flea)): 0.0011 mg/l<br>Exposure time: 21 d                  |

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**7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:**

|                                                     |                                                                                                                                                                                                                                                                    |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                    | : LC50 (Oncorhynchus mykiss (rainbow trout)): 24 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203                                                                                                                                                    |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Daphnia magna (Water flea)): 40 mg/l<br>Exposure time: 48 h<br>Method: OECD Test Guideline 202                                                                                                                                                             |
| Toxicity to algae/aquatic plants                    | : ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 110 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br><br>NOEC (Raphidocelis subcapitata (freshwater green alga)): 30 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |
| Toxicity to microorganisms                          | : EC10 (activated sludge): 409 mg/l<br>Exposure time: 3 h<br>Method: OECD Test Guideline 209                                                                                                                                                                       |

**Persistence and degradability****Components:****Hydrocarbons, C10, aromatics, <1% naphthalene:**

|                  |                                                                                                                            |
|------------------|----------------------------------------------------------------------------------------------------------------------------|
| Biodegradability | : Result: Not readily biodegradable.<br>Biodegradation: 49.56 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301F |
|------------------|----------------------------------------------------------------------------------------------------------------------------|

**4-Nonylphenol, branched, ethoxylated:**

|                  |                                                                                       |
|------------------|---------------------------------------------------------------------------------------|
| Biodegradability | : Result: Not readily biodegradable.<br>Remarks: Based on data from similar materials |
|------------------|---------------------------------------------------------------------------------------|

**7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:**

|                  |                                                                                                                         |
|------------------|-------------------------------------------------------------------------------------------------------------------------|
| Biodegradability | : Result: Not readily biodegradable.<br>Biodegradation: 71 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301B |
|------------------|-------------------------------------------------------------------------------------------------------------------------|

**Bioaccumulative potential****Components:****amitraz (ISO):**

|                 |                                                                                           |
|-----------------|-------------------------------------------------------------------------------------------|
| Bioaccumulation | : Species: Lepomis macrochirus (Bluegill sunfish)<br>Bioconcentration factor (BCF): 1,333 |
|-----------------|-------------------------------------------------------------------------------------------|

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Partition coefficient: n-octanol/water : log Pow: 5.5

**7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:**

Partition coefficient: n-octanol/water : log Pow: 1.34  
Method: OECD Test Guideline 107

**Mobility in soil****Components:****amitraz (ISO):**

Distribution among environmental compartments : log Koc: 3.3

**Other adverse effects**

No data available

**Endocrine disrupting properties**

No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Do not dispose of waste into sewer.  
Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(4-Nonylphenol, branched, ethoxylated, amitraz (ISO))

Class : 9  
Packing group : III  
Labels : 9  
Environmentally hazardous : yes

**IATA-DGR**

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(4-Nonylphenol, branched, ethoxylated, amitraz (ISO))

Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964

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Packing instruction (passenger aircraft) : 964  
Environmentally hazardous : yes  
Remarks : Above applies only to containers over 119 gallons (450 liters) in case of liquids, or 882 lbs. (400 kg) in case of solids.

**IMDG-Code**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-Nonylphenol, branched, ethoxylated, amitraz (ISO))  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes  
Remarks : Above applies only to containers over 119 gallons (450 liters) in case of liquids, or 882 lbs. (400 kg) in case of solids.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

**National Regulations****ADG**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-Nonylphenol, branched, ethoxylated, amitraz (ISO))  
Class : 9  
Packing group : III  
Labels : 9  
Hazchem Code : •3Z  
Environmentally hazardous : yes

**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**

Therapeutic Goods (Poisons Standard) Instrument : Schedule 6 (Please use the original publication to check for specific uses, specific conditions or threshold limits that might apply for this chemical)  
Prohibition/Licensing Requirements : There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regulations.

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National Code of Practice for Chemicals of Security Concern : Not listed

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

|          |                  |
|----------|------------------|
| AICS     | : not determined |
| CA. DSL  | : not determined |
| CN IECSC | : not determined |

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**SECTION 16: ANY OTHER RELEVANT INFORMATION****Further information**

|                                                           |                                                                                                                                                                                     |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Revision Date                                             | : 02.04.2026                                                                                                                                                                        |
| Sources of key data used to compile the Safety Data Sheet | : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a> |

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

Date format : dd.mm.yyyy

**Full text of other abbreviations**

|        |                                                                      |
|--------|----------------------------------------------------------------------|
| ACGIH  | : USA. ACGIH Threshold Limit Values (TLV)                            |
| AU OEL | : Australia. Workplace Exposure Standards for Airborne Contaminants. |

|              |                                             |
|--------------|---------------------------------------------|
| ACGIH / TWA  | : 8-hour, time-weighted average             |
| AU OEL / TWA | : Exposure standard - time weighted average |

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonised 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 Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; 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; MERCOSUR - The Agreement for the Facilitation of the Transport of Dangerous Goods; 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 - Organisation for Economic Co-operation and Development;

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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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

AU / EN