

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/28/2024  |
| 8.0     | 04/14/2025     | 1829157-00018 | Date of first issue: 07/11/2017 |

### SECTION 1. IDENTIFICATION

Product name : Amitraz (12.5%) Formulation

#### Manufacturer or supplier's details

Company name of supplier : Merck & Co., Inc  
Address : 126 E. Lincoln Avenue  
Rahway, New Jersey U.S.A. 07065  
Telephone : 908-740-4000  
Emergency telephone : 1-908-423-6000  
E-mail address : EHSDATASTEWARD@merck.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 in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                                       |                                                                   |
|-------------------------------------------------------|-------------------------------------------------------------------|
| Acute toxicity (Oral)                                 | : Category 4                                                      |
| Eye irritation                                        | : Category 2A                                                     |
| Reproductive toxicity                                 | : Category 1B                                                     |
| Specific target organ toxicity<br>- single exposure   | : Category 3                                                      |
| Specific target organ toxicity<br>- repeated exposure | : Category 1 (Kidney, Heart, Gastrointestinal tract, Lymph nodes) |
| Specific target organ toxicity<br>- repeated exposure | : Category 2 (Liver, Central nervous system)                      |
| Aspiration hazard                                     | : Category 1                                                      |

#### Other hazards

Repeated exposure may cause skin dryness or cracking.

#### GHS label elements

|                   |                                                                                                                           |
|-------------------|---------------------------------------------------------------------------------------------------------------------------|
| Hazard pictograms | :                                                                                                                         |
| Signal Word       | : Danger                                                                                                                  |
| Hazard Statements | : H302 Harmful if swallowed.<br>H304 May be fatal if swallowed and enters airways.<br>H319 Causes serious eye irritation. |

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

Version 8.0      Revision Date: 04/14/2025      SDS Number: 1829157-00018      Date of last issue: 09/28/2024  
Date of first issue: 07/11/2017

H336 May cause drowsiness or dizziness.  
H360F May damage fertility.  
H372 Causes damage to organs (Kidney, Heart, Gastrointestinal tract, Lymph nodes) through prolonged or repeated exposure.  
H373 May cause damage to organs (Liver, Central nervous system) through prolonged or repeated exposure.

Precautionary Statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe mist or vapors.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves, protective clothing, eye protection and face protection.

**Response:**  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P313 IF exposed or concerned: Get medical attention.  
P331 Do NOT induce vomiting.  
P337 + P313 If eye irritation persists: Get medical attention.

**Storage:**  
P405 Store locked up.

**Disposal:**  
P501 Dispose of contents and container to an approved waste disposal plant.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

| Chemical name                                 | CAS No./Unique ID | Concentration (% w/w) | Trade secret |
|-----------------------------------------------|-------------------|-----------------------|--------------|
| Hydrocarbons, C10, aromatics, <1% naphthalene | 64742-94-5*       | >= 60 - <= 80         | TSC          |
| 4-Nonylphenol, branched, ethoxylated          | 127087-87-0*      | >= 10 - <= 30         | TSC          |
| Amitraz (ISO)                                 | 33089-61-1*       | >= 7 - <= 13          | TSC          |

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/28/2024  |
| 8.0     | 04/14/2025     | 1829157-00018 | Date of first issue: 07/11/2017 |

|                                        |            |                       |     |
|----------------------------------------|------------|-----------------------|-----|
| Bis(2,6-diisopropylphenyl)carbodiimide | 2162-74-5* | $\geq 0.5 - \leq 1.5$ | TSC |
|----------------------------------------|------------|-----------------------|-----|

\* Indicates that the identifier is a CAS No.

TSC- the actual concentration or concentration range is withheld as a trade secret

### Alternative CAS Numbers for some regions

| Chemical name                        | Alternative CAS Number(s) |
|--------------------------------------|---------------------------|
| 4-Nonylphenol, branched, ethoxylated | 68412-54-4                |

## 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                                      | : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.<br>If easy to do, remove contact lens, if worn.<br>Get medical attention.                                                                                                                                             |
| If swallowed                                                | : If swallowed, DO NOT induce vomiting.<br>If vomiting occurs have person lean forward.<br>Call a physician or poison control center 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 | : Prolonged or repeated contact may dry skin and cause irritation.<br>Harmful if swallowed.<br>May be fatal if swallowed and enters airways.<br>Causes serious eye irritation.<br>May cause drowsiness or dizziness.<br>May damage fertility.<br>Causes damage to organs through prolonged or repeated exposure. |
| 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. FIRE-FIGHTING MEASURES

|                              |                                                                                              |
|------------------------------|----------------------------------------------------------------------------------------------|
| Suitable extinguishing media | : Water spray<br>Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical |
|------------------------------|----------------------------------------------------------------------------------------------|

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/28/2024  |
| 8.0     | 04/14/2025     | 1829157-00018 | Date of first issue: 07/11/2017 |

- |                                                |   |                                                                                                                                                                                                                                                 |
|------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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<br>Nitrogen oxides (NOx)                                                                                                                                                                                                          |
| 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 fire-fighters | : | In the event of fire, wear self-contained breathing apparatus.<br>Use personal protective equipment.                                                                                                                                            |

### 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 diking or other appropriate containment to keep material from spreading. If diked 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. |

### SECTION 7. HANDLING AND STORAGE

- |                    |   |                                                                               |
|--------------------|---|-------------------------------------------------------------------------------|
| Technical measures | : | See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. |
|--------------------|---|-------------------------------------------------------------------------------|

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

Version 8.0      Revision Date: 04/14/2025      SDS Number: 1829157-00018      Date of last issue: 09/28/2024  
Date of first issue: 07/11/2017

- Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust ventilation.
- Advice on safe handling : Do not get on skin or clothing.  
Do not breathe mist or vapors.  
Do not swallow.  
Do not get in eyes.  
Wash skin thoroughly after handling.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Keep container tightly closed.  
Do not eat, drink or smoke when using this product.  
Take care to prevent spills, waste and minimize release to the environment.
- Conditions for safe storage : Keep in properly labeled 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  
Self-reactive substances and mixtures  
Organic peroxides  
Explosives  
Gases

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Ingredients 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 (Inhalable particulate matter) | 5 mg/m <sup>3</sup>                            | ACGIH     |
|                                               |            | TWA                                | 500 ppm<br>2,000 mg/m <sup>3</sup>             | OSHA Z-1  |
|                                               |            | TWA (Mist)                         | 5 mg/m <sup>3</sup>                            | NIOSH REL |
|                                               |            | ST (Mist)                          | 10 mg/m <sup>3</sup>                           | NIOSH REL |
| 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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/28/2024  |
| 8.0     | 04/14/2025     | 1829157-00018 | Date of first issue: 07/11/2017 |

containment devices).  
Minimize open handling.

### Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection

II Material : Chemical-resistant gloves

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

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

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. 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.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                |                                              |
|----------------|----------------------------------------------|
| Appearance     | : liquid                                     |
| Color          | : yellow                                     |
| Odor           | : characteristic, aromatic, hydrocarbon-like |
| Odor Threshold | : No data available                          |

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/28/2024  |
| 8.0     | 04/14/2025     | 1829157-00018 | Date of first issue: 07/11/2017 |

|                                                  |   |                                                          |
|--------------------------------------------------|---|----------------------------------------------------------|
| pH                                               | : | No data available                                        |
| Melting point/freezing point                     | : | Not applicable                                           |
| Initial boiling point and boiling range          | : | No data available                                        |
| Flash point                                      | : | 223 °F / 106 °C                                          |
| Evaporation rate                                 | : | No data available                                        |
| Flammability (solid, gas)                        | : | Not applicable                                           |
| Flammability (liquids)                           | : | Not applicable                                           |
| Upper explosion limit / Upper flammability limit | : | No data available                                        |
| Lower explosion limit / Lower flammability limit | : | No data available                                        |
| Vapor pressure                                   | : | No data available                                        |
| Relative vapor density                           | : | No data available                                        |
| Relative density                                 | : | No data available                                        |
| Density                                          | : | No data available                                        |
| Solubility(ies)<br>Water solubility              | : | No data available                                        |
| Partition coefficient: n-octanol/water           | : | No data available                                        |
| Autoignition temperature                         | : | No data available                                        |
| Decomposition temperature                        | : | No data available                                        |
| Viscosity<br>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<br>Particle size        | : | Not applicable                                           |

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/28/2024  |
| 8.0     | 04/14/2025     | 1829157-00018 | Date of first issue: 07/11/2017 |

### 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. |

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

Inhalation  
Skin contact  
Ingestion  
Eye contact

#### Acute toxicity

Harmful if swallowed.

#### Product:

|                     |   |                                                                    |
|---------------------|---|--------------------------------------------------------------------|
| Acute oral toxicity | : | Acute toxicity estimate: 1,505 mg/kg<br>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): > 300 - 2,000 mg/kg<br>Remarks: Based on data from similar materials |
| Acute dermal toxicity | : | LD50 (Rabbit): > 2,000 mg/kg                                                     |

##### Amitraz (ISO):



# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/28/2024  |
| 8.0     | 04/14/2025     | 1829157-00018 | Date of first issue: 07/11/2017 |

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

### **Bis(2,6-diisopropylphenyl)carbodiimide:**

|                       |   |                                                                   |
|-----------------------|---|-------------------------------------------------------------------|
| Acute oral toxicity   | : | LD50 (Rat): > 300 - 2,000 mg/kg                                   |
|                       |   | Method: OECD Test Guideline 423                                   |
| Acute dermal toxicity | : | LD50 (Rat): > 2,000 mg/kg                                         |
|                       |   | Method: OECD Test Guideline 402                                   |
|                       |   | Assessment: The substance or mixture has no acute dermal toxicity |

### **Skin corrosion/irritation**

Not classified based on available information.

### **Components:**

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

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

#### **Amitraz (ISO):**

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

#### **Bis(2,6-diisopropylphenyl)carbodiimide:**

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

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

### **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  | : | Irritation to eyes, reversing within 21 days |

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/28/2024  |
| 8.0     | 04/14/2025     | 1829157-00018 | Date of first issue: 07/11/2017 |

### Amitraz (ISO):

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

### Bis(2,6-diisopropylphenyl)carbodiimide:

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

### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### Respiratory sensitization

Not classified based on available information.

### Components:

#### Hydrocarbons, C10, aromatics, <1% naphthalene:

|                    |                                        |
|--------------------|----------------------------------------|
| Test Type          | : Maximization Test                    |
| Routes of exposure | : Skin contact                         |
| Species            | : Guinea pig                           |
| Result             | : negative                             |
| Remarks            | : Based on data from similar materials |

#### 4-Nonylphenol, branched, ethoxylated:

|                    |                                          |
|--------------------|------------------------------------------|
| Test Type          | : Human repeat insult patch test (HRIPT) |
| Routes of exposure | : Skin contact                           |
| Result             | : negative                               |
| Remarks            | : Based on data from similar materials   |

### Amitraz (ISO):

|                    |                          |
|--------------------|--------------------------|
| Test Type          | : Maximization Test      |
| Routes of exposure | : Dermal                 |
| Species            | : Guinea pig             |
| Result             | : Not a skin sensitizer. |

### Bis(2,6-diisopropylphenyl)carbodiimide:

|                    |                           |
|--------------------|---------------------------|
| Test Type          | : Maximization Test       |
| Routes of exposure | : Skin contact            |
| Species            | : Guinea pig              |
| Method             | : OECD Test Guideline 406 |
| Result             | : negative                |

### Germ cell mutagenicity

Not classified based on available information.

### Components:

#### Hydrocarbons, C10, aromatics, <1% naphthalene:

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/28/2024  |
| 8.0     | 04/14/2025     | 1829157-00018 | Date of first issue: 07/11/2017 |

Genotoxicity in vitro : Test Type: In vitro sister chromatid exchange assay in mammalian cells  
Result: negative  
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
Species: Rat  
Application Route: inhalation (vapor)  
Result: negative  
Remarks: Based on data from similar materials

### 4-Nonylphenol, branched, ethoxylated:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Result: negative  
  
Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)  
Result: negative

### 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

### Bis(2,6-diisopropylphenyl)carbodiimide:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)  
Method: OECD Test Guideline 471  
Result: negative  
  
Test Type: Chromosome aberration test in vitro  
Method: OECD Test Guideline 473  
Result: negative  
  
Test Type: In vitro mammalian cell gene mutation test  
Method: OECD Test Guideline 476  
Result: negative

### Carcinogenicity

Not classified based on available information.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/28/2024  |
| 8.0     | 04/14/2025     | 1829157-00018 | Date of first issue: 07/11/2017 |

### Components:

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

|                   |                                        |
|-------------------|----------------------------------------|
| Species           | : Rat                                  |
| Application Route | : Ingestion                            |
| Exposure time     | : 2 Years                              |
| Result            | : negative                             |
| Remarks           | : Based on data from similar materials |

#### **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        |

**IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

### **Reproductive toxicity**

May damage fertility.

### Components:

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

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

|                              |                                                                                                                                                            |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Effects on fetal development | : Test Type: Embryo-fetal development<br>Species: Rat<br>Application Route: Ingestion<br>Result: negative<br>Remarks: Based on data from similar materials |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### **Amitraz (ISO):**

|                      |                                                                           |
|----------------------|---------------------------------------------------------------------------|
| Effects on fertility | : Test Type: Three-generation reproduction toxicity study<br>Species: Rat |
|----------------------|---------------------------------------------------------------------------|

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/28/2024  |
| 8.0     | 04/14/2025     | 1829157-00018 | Date of first issue: 07/11/2017 |

|                              |                                                       |
|------------------------------|-------------------------------------------------------|
|                              | Application Route: Oral                               |
|                              | Fertility: NOAEL: > 4.8 mg/kg body weight             |
|                              | Result: No significant adverse effects were reported  |
| Effects on fetal development | : Test Type: Embryo-fetal development                 |
|                              | Species: Rat                                          |
|                              | Application Route: Oral                               |
|                              | Developmental Toxicity: NOAEL: 3 mg/kg body weight    |
|                              | Remarks: No significant adverse effects were reported |
|                              | Test Type: Embryo-fetal development                   |
|                              | Species: Rabbit                                       |
|                              | Application Route: Oral                               |
|                              | Developmental Toxicity: NOAEL: 5 mg/kg body weight    |
|                              | Result: Effects on fetal development.                 |

### **Bis(2,6-diisopropylphenyl)carbodiimide:**

|                                    |                                                                                                    |
|------------------------------------|----------------------------------------------------------------------------------------------------|
| Effects on fertility               | : Test Type: Reproduction/Developmental toxicity screening test                                    |
|                                    | Species: Rat                                                                                       |
|                                    | Application Route: Ingestion                                                                       |
|                                    | Method: OECD Test Guideline 421                                                                    |
|                                    | Result: positive                                                                                   |
|                                    | Test Type: Fertility                                                                               |
|                                    | Species: Rat                                                                                       |
|                                    | Application Route: Ingestion                                                                       |
|                                    | Result: positive                                                                                   |
| Effects on fetal development       | : Test Type: Reproduction/Developmental toxicity screening test                                    |
|                                    | Species: Rat                                                                                       |
|                                    | Application Route: Ingestion                                                                       |
|                                    | Method: OECD Test Guideline 421                                                                    |
|                                    | Result: equivocal                                                                                  |
| Reproductive toxicity - Assessment | : Clear evidence of adverse effects on sexual function and fertility, based on animal experiments. |

### **STOT-single exposure**

May cause drowsiness or dizziness.

### **Components:**

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

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

### **STOT-repeated exposure**

Causes damage to organs (Kidney, Heart, Gastrointestinal tract, Lymph nodes) through prolonged or repeated exposure.

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/28/2024  |
| 8.0     | 04/14/2025     | 1829157-00018 | Date of first issue: 07/11/2017 |

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. |

#### **Bis(2,6-diisopropylphenyl)carbodiimide:**

|                    |                                                                   |
|--------------------|-------------------------------------------------------------------|
| Routes of exposure | : Ingestion                                                       |
| Target Organs      | : Kidney, Heart, Gastrointestinal tract, Lymph nodes              |
| Assessment         | : Causes damage to organs through prolonged or repeated exposure. |

### **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             | : > 100 mg/kg                          |
| Application Route | : Ingestion                            |
| Exposure time     | : 90 Days                              |
| 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                           |
| NOAEL             | : 0.25 mg/kg                    |
| Application Route | : Oral                          |
| Exposure time     | : 90 Days                       |
| Target Organs     | : Central nervous system, Liver |

#### **Bis(2,6-diisopropylphenyl)carbodiimide:**

|         |            |
|---------|------------|
| Species | : Rat      |
| NOAEL   | : 4 mg/kg  |
| LOAEL   | : 16 mg/kg |

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/28/2024  |
| 8.0     | 04/14/2025     | 1829157-00018 | Date of first issue: 07/11/2017 |

|                   |                           |
|-------------------|---------------------------|
| Application Route | : Ingestion               |
| Exposure time     | : 28 Days                 |
| Method            | : OECD Test Guideline 407 |

### Aspiration toxicity

May be fatal if swallowed and enters airways.

### Product:

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.

### 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  
Exposure time: 96 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 203  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 3 - 10 mg/l  
Exposure time: 48 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 202  
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): > 1 - 3 mg/l  
Exposure time: 72 h  
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

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/28/2024  |
| 8.0     | 04/14/2025     | 1829157-00018 | Date of first issue: 07/11/2017 |

|                                                                        |                                                                                                                                                                             |
|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                        | 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                  |

### Bis(2,6-diisopropylphenyl)carbodiimide:

|                               |                                                                                                                                                                        |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish              | : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.1 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203<br>Remarks: No toxicity at the limit of solubility. |
| Toxicity to daphnia and other | : EC50 (Daphnia magna (Water flea)): > 1 mg/l                                                                                                                          |



# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/28/2024  |
| 8.0     | 04/14/2025     | 1829157-00018 | Date of first issue: 07/11/2017 |

|                                  |                                                                                                                                                                                                                                                                                                 |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| aquatic invertebrates            | Exposure time: 48 h<br>Method: OECD Test Guideline 202<br>Remarks: No toxicity at the limit of solubility.                                                                                                                                                                                      |
| Toxicity to algae/aquatic plants | : ErC50 (Desmodesmus subspicatus (green algae)): > 1 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201<br>Remarks: No toxicity at the limit of solubility.<br><br>NOEC (Desmodesmus subspicatus (green algae)): > 1 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |
| Toxicity to microorganisms       | : EC50: > 1,000 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 |
|------------------|---------------------------------------------------------------------------------------|

##### Bis(2,6-diisopropylphenyl)carbodiimide:

|                  |                                                                                                                        |
|------------------|------------------------------------------------------------------------------------------------------------------------|
| Biodegradability | : Result: Not readily biodegradable.<br>Biodegradation: 3 %<br>Exposure time: 28 d<br>Method: OECD Test Guideline 301B |
|------------------|------------------------------------------------------------------------------------------------------------------------|

### Bioaccumulative potential

#### Components:

##### 4-Nonylphenol, branched, ethoxylated:

|                                        |                |
|----------------------------------------|----------------|
| Partition coefficient: n-octanol/water | : log Pow: < 4 |
|----------------------------------------|----------------|

##### Amitraz (ISO):

|                                        |                                                                                           |
|----------------------------------------|-------------------------------------------------------------------------------------------|
| Bioaccumulation                        | : Species: Lepomis macrochirus (Bluegill sunfish)<br>Bioconcentration factor (BCF): 1,333 |
| Partition coefficient: n-octanol/water | : log Pow: 5.5                                                                            |

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/28/2024  |
| 8.0     | 04/14/2025     | 1829157-00018 | Date of first issue: 07/11/2017 |

### Bis(2,6-diisopropylphenyl)carbodiimide:

Bioaccumulation : Bioconcentration factor (BCF): > 500

Partition coefficient: n-octanol/water : log Pow: > 6.2

### Mobility in soil

### Components:

### Amitraz (ISO):

Distribution among environmental compartments : log Koc: 3.3

### Other adverse effects

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal methods

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

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.

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### UNRTDG

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(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.  
(Amitraz (ISO))

Class : 9

Packing group : III

Labels : Miscellaneous

Packing instruction (cargo aircraft) : 964

Packing instruction (passenger aircraft) : 964

Environmentally hazardous : yes

#### IMDG-Code

UN number : UN 3082

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/28/2024  |
| 8.0     | 04/14/2025     | 1829157-00018 | Date of first issue: 07/11/2017 |

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Amitraz (ISO))

Class : 9

Packing group : III

Labels : 9

EmS Code : F-A, S-F

Marine pollutant : yes

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

### Domestic regulation

#### 49 CFR

UN/ID/NA number : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Amitraz (ISO))

Class : 9

Packing group : III

Labels : CLASS 9

ERG Code : 171

Marine pollutant : yes(Amitraz (ISO))

Remarks : Above applies only to containers over 119 gallons or 450 liters.  
Shipment by ground under DOT is non-regulated; however it may be shipped per the applicable hazard classification to facilitate multi-modal transport involving ICAO (IATA) or IMO.

### 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

### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Acute toxicity (any route of exposure)  
Reproductive toxicity  
Specific target organ toxicity (single or repeated exposure)  
Aspiration hazard  
Serious eye damage or eye irritation

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/28/2024  |
| 8.0     | 04/14/2025     | 1829157-00018 | Date of first issue: 07/11/2017 |

|                                      |             |                |
|--------------------------------------|-------------|----------------|
| 4-Nonylphenol, branched, ethoxylated | 127087-87-0 | >= 10 - < 20 % |
| Amitraz (ISO)                        | 33089-61-1  | >= 10 - < 20 % |

### US State Regulations

#### Pennsylvania Right To Know

|                                               |             |
|-----------------------------------------------|-------------|
| Hydrocarbons, C10, aromatics, <1% naphthalene | 64742-94-5  |
| 4-Nonylphenol, branched, ethoxylated          | 127087-87-0 |
| Amitraz (ISO)                                 | 33089-61-1  |

#### California Prop. 65

WARNING: This product can expose you to chemicals including Amitraz (ISO), which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### California List of Hazardous Substances

|                                               |            |
|-----------------------------------------------|------------|
| Hydrocarbons, C10, aromatics, <1% naphthalene | 64742-94-5 |
|-----------------------------------------------|------------|

#### California Permissible Exposure Limits for Chemical Contaminants

|                                               |            |
|-----------------------------------------------|------------|
| Hydrocarbons, C10, aromatics, <1% naphthalene | 64742-94-5 |
|-----------------------------------------------|------------|

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

|       |                  |
|-------|------------------|
| AICS  | : not determined |
| DSL   | : not determined |
| IECSC | : not determined |

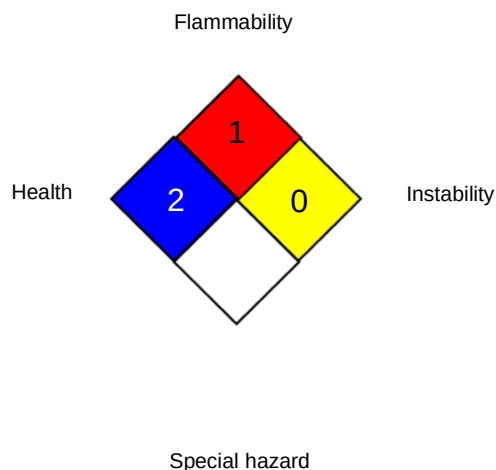
## SECTION 16. OTHER INFORMATION

### Further information

## Amitraz (12.5%) Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/28/2024  |
| 8.0     | 04/14/2025     | 1829157-00018 | Date of first issue: 07/11/2017 |

### NFPA 704:



### HMIS® IV:

|                 |   |   |
|-----------------|---|---|
| HEALTH          | * | 3 |
| FLAMMABILITY    |   | 1 |
| PHYSICAL HAZARD |   | 0 |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

|                 |   |                                                                                           |
|-----------------|---|-------------------------------------------------------------------------------------------|
| ACGIH           | : | USA. ACGIH Threshold Limit Values (TLV)                                                   |
| NIOSH REL       | : | USA. NIOSH Recommended Exposure Limits                                                    |
| OSHA Z-1        | : | USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants          |
| ACGIH / TWA     | : | 8-hour, time-weighted average                                                             |
| NIOSH REL / TWA | : | Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek |
| NIOSH REL / ST  | : | STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday    |
| OSHA Z-1 / TWA  | : | 8-hour time weighted average                                                              |

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of

# SAFETY DATA SHEET

according to the OSHA Hazard Communication Standard



## Amitraz (12.5%) Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 09/28/2024  |
| 8.0     | 04/14/2025     | 1829157-00018 | Date of first issue: 07/11/2017 |

---

Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECL - 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

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 04/14/2025

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

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.

US / Z8