

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Amitraz Liquid Formulation

|         |                |               |                                 |
|---------|----------------|---------------|---------------------------------|
| Version | Revision Date: | SDS Number:   | Date of last issue: 14.04.2025  |
| 8.0     | 17.06.2025     | 1644327-00024 | Date of first issue: 09.05.2017 |

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

#### 1.1 Product identifier

Trade name : Amitraz Liquid Formulation

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-  
stance/Mixture : Veterinary product

Recommended restrictions  
on use : Not applicable

#### 1.3 Details of the supplier of the safety data sheet

Company : MSD  
Kilsheelan  
Clonmel Tipperary, IE

Telephone : 353-51-601000

E-mail address of person  
responsible for the SDS : EHSDATASTEWARD@msd.com

#### 1.4 Emergency telephone number

+1-908-423-6000

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

|                                                                |                                                                          |
|----------------------------------------------------------------|--------------------------------------------------------------------------|
| Flammable liquids, Category 3                                  | H226: Flammable liquid and vapour.                                       |
| Skin irritation, Category 2                                    | H315: Causes skin irritation.                                            |
| Skin sensitisation, Category 1                                 | H317: May cause an allergic skin reaction.                               |
| Germ cell mutagenicity, Category 1B                            | H340: May cause genetic defects.                                         |
| Carcinogenicity, Category 1B                                   | H350: May cause cancer.                                                  |
| Reproductive toxicity, Category 2                              | H361: Suspected of damaging fertility or the unborn child.               |
| Specific target organ toxicity - single exposure, Category 3   | H336: May cause drowsiness or dizziness.                                 |
| Specific target organ toxicity - repeated exposure, Category 2 | H373: May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard, Category 1                                  | H304: May be fatal if swallowed and enters airways.                      |
| Short-term (acute) aquatic hazard, Category 1                  | H400: Very toxic to aquatic life.                                        |

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Long-term (chronic) aquatic hazard, Category 1  
Endocrine disruptor for environment, Category 1

H410: Very toxic to aquatic life with long lasting effects.  
EUH430: May cause endocrine disruption in the environment

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

|                          |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hazard pictograms        | : |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Signal word              | : | Danger                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Hazard statements        | : | <p>H226 Flammable liquid and vapour.<br/>H304 May be fatal if swallowed and enters airways.<br/>H315 Causes skin irritation.<br/>H317 May cause an allergic skin reaction.<br/>H336 May cause drowsiness or dizziness.<br/>H340 May cause genetic defects.<br/>H350 May cause cancer.<br/>H361 Suspected of damaging fertility or the unborn child.<br/>H373 May cause damage to organs through prolonged or repeated exposure.<br/>H410 Very toxic to aquatic life with long lasting effects.<br/>EUH430 May cause endocrine disruption in the environment</p> |
| Precautionary statements | : | <p><b>Prevention:</b><br/>P201 Obtain special instructions before use.<br/>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br/>P273 Avoid release to the environment.<br/>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p><b>Response:</b><br/>P391 Collect spillage.</p> <p><b>Storage:</b><br/>P405 Store locked up.</p> <p><b>Disposal:</b><br/>P501 Dispose of contents/ container to an approved waste disposal plant.</p>                                   |

Hazardous components which must be listed on the label:

Solvent naphtha (petroleum), light aromatic  
4-Nonylphenol, branched, ethoxylated  
amitraz (ISO)

7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate  
Restricted to professional users.

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### 2.3 Other hazards

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

Ecological information: This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

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

Vapours may form explosive mixture with air.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

| Chemical name                               | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification                                                                                                                                                                        | Concentration<br>(% w/w) |
|---------------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| Solvent naphtha (petroleum), light aromatic | 64742-95-6<br>265-199-0<br>649-356-00-4               | Flam. Liq. 3; H226<br>Skin Irrit. 2; H315<br>Muta. 1B; H340<br>Carc. 1B; H350<br>STOT SE 3; H336<br>Asp. Tox. 1; H304<br>Aquatic Chronic 2;<br>H411                                   | >= 70 - < 90             |
| 4-Nonylphenol, branched, ethoxylated        | 127087-87-0                                           | Repr. 2; H361<br>Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br>ED ENV 1;<br>EUH430<br><br>M-Factor (Acute aquatic toxicity): 1<br>M-Factor (Chronic aquatic toxicity): 10 | >= 20 - < 25             |
| amitraz (ISO)                               | 33089-61-1<br>251-375-4<br>612-086-00-2               | Acute Tox. 4; H302<br>Skin Sens. 1B;<br>H317<br>STOT RE 2; H373<br>(Liver, Central nervous system)                                                                                    | >= 10 - < 20             |

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|                                                                             |                                        |                                                                                                                                                      |               |
|-----------------------------------------------------------------------------|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
|                                                                             |                                        | Aquatic Acute 1;<br>H400<br>Aquatic Chronic 1;<br>H410<br><br>M-Factor (Acute<br>aquatic toxicity): 10<br>M-Factor (Chronic<br>aquatic toxicity): 10 |               |
| 7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate | 2386-87-0<br>219-207-4<br>607-773-00-9 | Skin Sens. 1; H317<br>Muta. 2; H341<br>STOT RE 2; H373<br>(nasal cavity)<br>Aquatic Chronic 3;<br>H412                                               | >= 2,5 - < 10 |

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.  
Get medical attention.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting.  
If vomiting occurs have person lean forward.  
Call a physician or poison control centre immediately.  
Rinse mouth thoroughly with water.  
Never give anything by mouth to an unconscious person.

#### 4.2 Most important symptoms and effects, both acute and delayed

- Risks : May be fatal if swallowed and enters airways.

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Causes skin irritation.  
May cause an allergic skin reaction.  
May cause drowsiness or dizziness.  
May cause genetic defects.  
May cause cancer.  
Suspected of damaging fertility or the unborn child.  
May cause damage to organs through prolonged or repeated exposure.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically and supportively.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

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

Unsuitable extinguishing media : High volume water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Do not use a solid water stream as it may scatter and spread fire.  
Flash back possible over considerable distance.  
Vapours may form explosive mixtures with air.  
Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides

### 5.3 Advice for firefighters

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

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

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Remove all sources of ignition.

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Use personal protective equipment.  
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

### 6.2 Environmental precautions

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

### 6.3 Methods and material for containment and cleaning up

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

### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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

Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust ventilation.  
Use explosion-proof electrical, ventilating and lighting equipment.

Advice on safe handling : Do not get on skin or clothing.  
Do not breathe mist or vapours.  
Do not swallow.  
Avoid contact with 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

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Non-sparking tools should be used.  
Keep container tightly closed.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Take precautionary measures against static discharges.  
Take care to prevent spills, waste and minimize release to the environment.

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

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in properly labelled containers. Store locked up. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.

Advice on common storage : Do not store with the following product types:  
Strong oxidizing agents  
Self-reactive substances and mixtures  
Organic peroxides  
Flammable solids  
Pyrophoric liquids  
Pyrophoric solids  
Self-heating substances and mixtures  
Substances and mixtures, which in contact with water, emit flammable gases  
Explosives  
Gases  
Very acutely toxic substances and mixtures

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components                                  | CAS-No.    | Value type (Form of exposure) | Control parameters              | Basis               |
|---------------------------------------------|------------|-------------------------------|---------------------------------|---------------------|
| Solvent naphtha (petroleum), light aromatic | 64742-95-6 | TWA                           | 25 ppm<br>120 mg/m <sup>3</sup> | FOR-2011-12-06-1358 |

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|               |            |            |                             |          |
|---------------|------------|------------|-----------------------------|----------|
| amitraz (ISO) | 33089-61-1 | TWA        | 10 µg/m3 (OEB 3)            | Internal |
|               |            | Wipe limit | 1250 µg/100 cm <sup>2</sup> | Internal |

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

| Substance name                                                              | End Use | Exposure routes | Potential health effects   | Value             |
|-----------------------------------------------------------------------------|---------|-----------------|----------------------------|-------------------|
| 7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate | Workers | Inhalation      | Long-term systemic effects | 0,18 mg/m3        |
|                                                                             | Workers | Inhalation      | Long-term local effects    | 0,18 mg/m3        |
|                                                                             | Workers | Skin contact    | Long-term systemic effects | 0,05 mg/kg bw/day |

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

| Substance name                                                              | Environmental Compartment | Value                          |
|-----------------------------------------------------------------------------|---------------------------|--------------------------------|
| 7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate | Fresh water               | 0,024 mg/l                     |
|                                                                             | Freshwater - intermittent | 0,24 mg/l                      |
|                                                                             | Marine water              | 0,0024 mg/l                    |
|                                                                             | Sewage treatment plant    | 19,5 mg/l                      |
|                                                                             | Fresh water sediment      | 0,211 mg/kg dry weight (d.w.)  |
|                                                                             | Marine sediment           | 0,0211 mg/kg dry weight (d.w.) |
|                                                                             | Soil                      | 0,0282 mg/kg dry weight (d.w.) |

## 8.2 Exposure controls

### Engineering measures

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

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

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

Minimize open handling.

Use explosion-proof electrical, ventilating and lighting equipment.

### Personal protective equipment

Eye/face 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



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|                          |                                                                          |                                                                                                                                                                                                                                                                                             |  |
|--------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Hand protection          | potential for direct contact to the face with dusts, mists, or aerosols. |                                                                                                                                                                                                                                                                                             |  |
| Material                 | :                                                                        | Chemical-resistant gloves                                                                                                                                                                                                                                                                   |  |
| Remarks                  | :                                                                        | Consider double gloving. Take note that the product is flammable, which may impact the selection of hand protection.                                                                                                                                                                        |  |
| Skin and body protection | :                                                                        | Work uniform or laboratory coat.<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. |  |
| Respiratory protection   | :                                                                        | If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.<br>Filter should conform to NS EN 14387                                                                                |  |
| Filter type              | :                                                                        | Combined particulates and organic vapour type (A-P)                                                                                                                                                                                                                                         |  |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                  |   |                          |
|--------------------------------------------------|---|--------------------------|
| Physical state                                   | : | liquid                   |
| Colour                                           | : | Colorless to pale yellow |
| Odour                                            | : | No data available        |
| Odour Threshold                                  | : | No data available        |
| Melting point/freezing point                     | : | No data available        |
| Initial boiling point and boiling range          | : | 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        |
| Flash point                                      | : | 56 °C                    |
| Auto-ignition temperature                        | : | No data available        |

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Decomposition temperature : No data available

pH : No data available

Viscosity  
Viscosity, kinematic : No data available

Solubility(ies)  
Water solubility : No data available

Partition coefficient: n-  
octanol/water : No data available

Vapour pressure : No data available

Relative density : No data available

Density : 0,92 - 1,20 g/cm<sup>3</sup>

Relative vapour density : No data available

Particle characteristics  
Particle size : No data available

### 9.2 Other information

Explosives : Not explosive

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

Evaporation rate : No data available

Molecular weight : Not applicable

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

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

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

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Materials to avoid : Oxidizing agents

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

#### Components:

##### **Solvent naphtha (petroleum), light aromatic:**

|                           |                                                                            |
|---------------------------|----------------------------------------------------------------------------|
| Acute oral toxicity       | : LD50 (Rat): > 5.000 mg/kg                                                |
| Acute inhalation toxicity | : LC50 (Rat): > 5,61 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour |
| Acute dermal toxicity     | : LD50 (Rabbit): > 2.000 mg/kg                                             |

##### **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 |
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|                           |                                                                                                                                                                                                |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Acute inhalation toxicity | : LC50 (Rat): $\geq 5,19$ 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                                                          |

### Skin corrosion/irritation

Causes skin irritation.

### Components:

#### Solvent naphtha (petroleum), light aromatic:

|         |                           |
|---------|---------------------------|
| Species | : Rabbit                  |
| Method  | : OECD Test Guideline 404 |
| Result  | : Skin irritation         |

#### 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:

#### Solvent naphtha (petroleum), light aromatic:

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

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

|         |          |
|---------|----------|
| Species | : Rabbit |
|---------|----------|

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

### Respiratory or skin sensitisation

#### Skin sensitisation

May cause an allergic skin reaction.

#### Respiratory sensitisation

Not classified based on available information.

### Components:

#### Solvent naphtha (petroleum), light aromatic:

|                 |                |
|-----------------|----------------|
| Test Type       | : Buehler Test |
| Exposure routes | : Skin contact |
| Species         | : Guinea pig   |
| Result          | : negative     |

#### 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          | : Sensitiser        |

### 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 |
|------------|-----------------------------------------------------------|

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### Germ cell mutagenicity

May cause genetic defects.

#### Components:

##### **Solvent naphtha (petroleum), light aromatic:**

|                                    |   |                                                                                                                                                      |
|------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vitro              | : | Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative                                                                               |
|                                    | : | Test Type: In vitro mammalian cell gene mutation test<br>Result: positive                                                                            |
| Genotoxicity in vivo               | : | Test Type: Sister chromatid exchange analysis in spermatogonia<br>Species: Mouse<br>Application Route: Intraperitoneal injection<br>Result: positive |
| Germ cell mutagenicity- Assessment | : | Positive result(s) from in vivo heritable germ cell mutagenicity tests in mammals                                                                    |

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

|                       |   |                                                                                                                                                               |
|-----------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vitro | : | Test Type: Bacterial reverse mutation assay (AMES)<br>Method: OECD Test Guideline 471<br>Result: negative<br>Remarks: Based on data from similar materials    |
|                       | : | Test Type: Chromosome aberration test in vitro<br>Method: OECD Test Guideline 473<br>Result: negative<br>Remarks: Based on data from similar materials        |
|                       | : | Test Type: In vitro mammalian cell gene mutation test<br>Method: OECD Test Guideline 476<br>Result: negative<br>Remarks: Based on data from similar materials |

##### **amitraz (ISO):**

|                       |   |                                                                                                               |
|-----------------------|---|---------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vitro | : | Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative                                        |
|                       | : | Test Type: In vitro mammalian cell gene mutation test<br>Result: negative                                     |
|                       | : | Test Type: Chromosome aberration test in vitro<br>Result: negative                                            |
|                       | : | Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)<br>Result: negative |

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||

### 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)<br>Method: OECD Test Guideline 471<br>Result: positive<br><br>Test Type: In vitro mammalian cell gene mutation test<br>Result: positive<br><br>Test Type: In vitro sister chromatid exchange assay in mam-<br>malian cells<br>Result: positive<br><br>Test Type: DNA damage and repair, unscheduled DNA syn-<br>thesis in mammalian cells (in vitro)<br>Result: positive                                                                               |
| Genotoxicity in vivo                    | : Test Type: Unscheduled DNA synthesis (UDS) test with<br>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 as-<br>say<br>Species: Mouse<br>Application Route: Ingestion<br>Method: OECD Test Guideline 488<br>Result: positive |
| Germ cell mutagenicity- As-<br>sessment | : Positive result(s) from in vivo mammalian somatic cell muta-<br>genicity tests.                                                                                                                                                                                                                                                                                                                                                                                                                           |

### Carcinogenicity

May cause cancer.

### Components:

#### Solvent naphtha (petroleum), light aromatic:

|                   |                |
|-------------------|----------------|
| Species           | : Mouse        |
| Application Route | : Skin contact |
| Exposure time     | : 2 Years      |
| Result            | : positive     |

|                                   |                                                                |
|-----------------------------------|----------------------------------------------------------------|
| Carcinogenicity - Assess-<br>ment | : Sufficient evidence of carcinogenicity in animal experiments |
|-----------------------------------|----------------------------------------------------------------|

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### 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.

### Components:

#### Solvent naphtha (petroleum), light aromatic:

|                               |                                                                                                                                               |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Effects on fertility          | : Test Type: Reproduction/Developmental toxicity screening test<br>Species: Rat<br>Application Route: inhalation (vapour)<br>Result: negative |
| Effects on foetal development | : Test Type: Embryo-foetal development<br>Species: Rat<br>Application Route: inhalation (vapour)<br>Result: negative                          |

#### 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                                                                                                                         |



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Developmental Toxicity: NOAEL: 3 mg/kg body weight  
Remarks: No significant adverse effects were reported

Test Type: Embryo-foetal development  
Species: Rabbit  
Application Route: Oral  
Developmental Toxicity: NOAEL: 5 mg/kg body weight  
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  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative

### STOT - single exposure

May cause drowsiness or dizziness.

#### Components:

#### Solvent naphtha (petroleum), light aromatic:

Assessment : May cause drowsiness or dizziness.

### STOT - repeated exposure

May cause damage to organs 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:

#### Solvent naphtha (petroleum), light aromatic:

Species : Rat  
LOAEL : 500 mg/kg  
Application Route : Ingestion  
Exposure time : 28 Days

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### 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                           |
| 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.

### 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:

#### Solvent naphtha (petroleum), light aromatic:

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.

## 11.2 Information on other hazards

### Endocrine disrupting properties

Not classified based on available information.

### Product:

|            |                                                                                                                     |
|------------|---------------------------------------------------------------------------------------------------------------------|
| Assessment | : The substance/mixture does not contain components considered to have endocrine disrupting properties according to |
|------------|---------------------------------------------------------------------------------------------------------------------|

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REACH Article 57(f) or Commission Delegated regulation  
(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at  
levels of 0.1% or higher.

### Experience with human exposure

#### Components:

##### amitraz (ISO):

|| Ingestion : Target Organs: Central nervous system

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### Solvent naphtha (petroleum), light aromatic:

|                                                                        |                                                                                                                                                                          |
|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Toxicity to fish                                                       | : LC50 (Pimephales promelas (fathead minnow)): 8,2 mg/l<br>Exposure time: 96 h<br>Test substance: Water Accommodated Fraction                                            |
| Toxicity to daphnia and other aquatic invertebrates                    | : EL50 (Daphnia magna (Water flea)): 4,5 mg/l<br>Exposure time: 48 h<br>Test substance: Water Accommodated Fraction<br>Method: OECD Test Guideline 202                   |
| Toxicity to algae/aquatic plants                                       | : EL50 (Pseudokirchneriella subcapitata (microalgae)): 3,1 mg/l<br>Exposure time: 96 h<br>Test substance: Water Accommodated Fraction<br>Method: OECD Test Guideline 201 |
|                                                                        | NOELR (Pseudokirchneriella subcapitata (microalgae)): 0,5 mg/l<br>Exposure time: 96 h<br>Test substance: Water Accommodated Fraction<br>Method: OECD Test Guideline 201  |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : NOELR: 2,6 mg/l<br>Exposure time: 21 d<br>Species: Daphnia magna (Water flea)<br>Test substance: Water Accommodated Fraction<br>Method: OECD Test Guideline 211        |

##### 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      |

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Toxicity to algae/aquatic plants : ErC50 (Selenastrum capricornutum (green algae)): > 1 - 10 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

EC10 (Selenastrum capricornutum (green algae)): > 1 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC: > 0,1 - 1 mg/l  
Exposure time: 100 d  
Species: Oryzias latipes (Japanese medaka)  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0,001 - 0,01 mg/l  
Exposure time: 28 d  
Species: Mysidopsis bahia (opossum shrimp)  
Remarks: Based on data from similar materials

M-Factor (Chronic aquatic toxicity) : 10

### amitraz (ISO):

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,45 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,035 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : NOEC (Pseudokirchneriella subcapitata (green algae)): 0,04 mg/l  
Exposure time: 91 h

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC: 0,00148 mg/l  
Exposure time: 32 d  
Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0011 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 10

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

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

### 12.2 Persistence and degradability

#### Components:

##### **Solvent naphtha (petroleum), light aromatic:**

|                  |                                                                                    |
|------------------|------------------------------------------------------------------------------------|
| Biodegradability | : Result: Inherently biodegradable.<br>Biodegradation: 94 %<br>Exposure time: 25 d |
|------------------|------------------------------------------------------------------------------------|

##### **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 |
|------------------|-------------------------------------------------------------------------------------------------------------------------|

### 12.3 Bioaccumulative potential

#### Components:

##### **amitraz (ISO):**

|                                        |                                                                                           |
|----------------------------------------|-------------------------------------------------------------------------------------------|
| Bioaccumulation                        | : Species: Lepomis macrochirus (Bluegill sunfish)<br>Bioconcentration factor (BCF): 1.333 |
| Partition coefficient: n-octanol/water | : log Pow: 5,5                                                                            |

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### 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 |

## 12.4 Mobility in soil

### Components:

#### amitraz (ISO):

|                                               |   |              |
|-----------------------------------------------|---|--------------|
| Distribution among environmental compartments | : | log Koc: 3,3 |
|-----------------------------------------------|---|--------------|

## 12.5 Results of PBT and vPvB assessment

### Product:

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

## 12.6 Endocrine disrupting properties

### Product:

|            |   |                                                                                                                                                                                                                                         |
|------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Assessment | : | This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100. |
|------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Components:

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

|            |   |                                                                                                                           |
|------------|---|---------------------------------------------------------------------------------------------------------------------------|
| Assessment | : | The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for the environment. |
|------------|---|---------------------------------------------------------------------------------------------------------------------------|

## 12.7 Other adverse effects

No data available

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

|                        |   |                                                                                                                                                                                                                                                                                                           |
|------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product                | : | Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer. |
| Contaminated packaging | : | Empty containers should be taken to an approved waste han-                                                                                                                                                                                                                                                |

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ding site for recycling or disposal.  
Empty containers retain residue and can be dangerous.  
Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death.  
If not otherwise specified: Dispose of as unused product.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

|      |   |         |
|------|---|---------|
| ADN  | : | UN 1993 |
| ADR  | : | UN 1993 |
| RID  | : | UN 1993 |
| IMDG | : | UN 1993 |
| IATA | : | UN 1993 |

#### 14.2 UN proper shipping name

|      |   |                                                                                          |
|------|---|------------------------------------------------------------------------------------------|
| ADN  | : | FLAMMABLE LIQUID, N.O.S.<br>(Solvent naphtha (petroleum), light aromatic)                |
| ADR  | : | FLAMMABLE LIQUID, N.O.S.<br>(Solvent naphtha (petroleum), light aromatic)                |
| RID  | : | FLAMMABLE LIQUID, N.O.S.<br>(Solvent naphtha (petroleum), light aromatic)                |
| IMDG | : | FLAMMABLE LIQUID, N.O.S.<br>(Solvent naphtha (petroleum), light aromatic, amitraz (ISO)) |
| IATA | : | Flammable liquid, n.o.s.<br>(Solvent naphtha (petroleum), light aromatic)                |

#### 14.3 Transport hazard class(es)

|      | Class | Subsidiary risks |
|------|-------|------------------|
| ADN  | :     | 3                |
| ADR  | :     | 3                |
| RID  | :     | 3                |
| IMDG | :     | 3                |
| IATA | :     | 3                |

#### 14.4 Packing group

|                              |   |     |
|------------------------------|---|-----|
| ADN                          |   |     |
| Packing group                | : | III |
| Classification Code          | : | F1  |
| Hazard Identification Number | : | 30  |
| Labels                       | : | 3   |
| ADR                          |   |     |
| Packing group                | : | III |

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Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : (D/E)

### RID

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

### IMDG

Packing group : III  
Labels : 3  
EmS Code : F-E, S-E

### IATA (Cargo)

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

### IATA (Passenger)

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

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

### IATA (Passenger)

Environmentally hazardous : yes

### IATA (Cargo)

Environmentally hazardous : yes

## 14.6 Special precautions for user

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

## 14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.



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|         |                |               |                                 |
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### SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 3

Number on list 28: Solvent naphtha (petroleum), light aromatic

Number on list 29: Solvent naphtha (petroleum), light aromatic

Number on list 46b: 4-Nonylphenol, branched, ethoxylated

Number on list 46a: 4-Nonylphenol, branched, ethoxylated

Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or not.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : 4-Nonylphenol, branched, ethoxylated

REACH - List of substances subject to authorisation (Annex XIV) : 4-Nonylphenol, branched, ethoxylated

Regulation (EU) No 2024/590 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : amitraz (ISO)  
4-Nonylphenol, branched, ethoxylated

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Quantity 1

Quantity 2

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|                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                |         |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------|
| E1                                                                                                                                                      | ENVIRONMENTAL<br>HAZARDS                                                                                                                                                                                                                                                                                                                                                       | 100 t   | 200 t    |
| Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. |                                                                                                                                                                                                                                                                                                                                                                                |         |          |
| P5c                                                                                                                                                     | FLAMMABLE LIQUIDS                                                                                                                                                                                                                                                                                                                                                              | 5.000 t | 50.000 t |
| Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. |                                                                                                                                                                                                                                                                                                                                                                                |         |          |
| 34                                                                                                                                                      | Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams), (d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d) | 2.500 t | 25.000 t |

### Other regulations:

Note the Working Environment Act § 4-1 and § 4-2 on requirements for the employer to protect pregnant employees against discomfort and injury as a result of the work situation and the working environment.

Note the regulation on organization, leadership and participation, chapter 12 on the work of children and young people.

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

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

## 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

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

### Full text of H-Statements

|        |   |                                                   |
|--------|---|---------------------------------------------------|
| EUH430 | : | May cause endocrine disruption in the environment |
| H226   | : | Flammable liquid and vapour.                      |
| H302   | : | Harmful if swallowed.                             |

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|      |                                                                      |
|------|----------------------------------------------------------------------|
| H304 | : May be fatal if swallowed and enters airways.                      |
| H315 | : Causes skin irritation.                                            |
| H317 | : May cause an allergic skin reaction.                               |
| H336 | : May cause drowsiness or dizziness.                                 |
| H340 | : May cause genetic defects.                                         |
| H341 | : Suspected of causing genetic defects.                              |
| H350 | : May cause cancer.                                                  |
| H361 | : Suspected of damaging fertility or the unborn child.               |
| H373 | : May cause damage to organs through prolonged or repeated exposure. |
| H400 | : Very toxic to aquatic life.                                        |
| H410 | : Very toxic to aquatic life with long lasting effects.              |
| H411 | : Toxic to aquatic life with long lasting effects.                   |
| H412 | : Harmful to aquatic life with long lasting effects.                 |

### Full text of other abbreviations

|                           |                                                      |
|---------------------------|------------------------------------------------------|
| Acute Tox.                | : Acute toxicity                                     |
| Aquatic Acute             | : Short-term (acute) aquatic hazard                  |
| Aquatic Chronic           | : Long-term (chronic) aquatic hazard                 |
| Asp. Tox.                 | : Aspiration hazard                                  |
| Carc.                     | : Carcinogenicity                                    |
| ED ENV                    | : Endocrine disruptor for environment                |
| Flam. Liq.                | : Flammable liquids                                  |
| Muta.                     | : Germ cell mutagenicity                             |
| Repr.                     | : Reproductive toxicity                              |
| Skin Irrit.               | : Skin irritation                                    |
| Skin Sens.                | : Skin sensitisation                                 |
| STOT RE                   | : Specific target organ toxicity - repeated exposure |
| STOT SE                   | : Specific target organ toxicity - single exposure   |
| FOR-2011-12-06-1358       | : Norway. Occupational Exposure limits               |
| FOR-2011-12-06-1358 / TWA | : Long term exposure limit                           |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - 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; IECS - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of

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Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

### Further information

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, <http://echa.europa.eu/>

### Classification of the mixture:

|                   |        |
|-------------------|--------|
| Flam. Liq. 3      | H226   |
| Skin Irrit. 2     | H315   |
| Skin Sens. 1      | H317   |
| Muta. 1B          | H340   |
| Carc. 1B          | H350   |
| Repr. 2           | H361   |
| STOT SE 3         | H336   |
| STOT RE 2         | H373   |
| Asp. Tox. 1       | H304   |
| Aquatic Acute 1   | H400   |
| Aquatic Chronic 1 | H410   |
| ED ENV 1          | EUH430 |

### Classification procedure:

|                                     |
|-------------------------------------|
| Based on product data or assessment |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |
| Based on product data or assessment |
| Calculation method                  |
| Calculation method                  |
| Calculation method                  |

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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.

NO / EN