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

| 1.1 | Product identifier Trade name | : | Amitraz (12.5%) Formulation |
|-----|--|-----|---|
| 1.2 | Relevant identified uses of th | e s | ubstance 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 | saf | ety data sheet |
| | Company | : | MSD Walton Manor, Walton MK7 7AJ Milton Keynes - United Kingdom |
| | Telephone | : | +1-908-740-4000 |
| | 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) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

| Acute toxicity, Category 4 Eye irritation, Category 2 Skin sensitisation, Category 1 Reproductive toxicity, Category 1B Specific target organ toxicity - single ex- posure, Category 3 | H302: Harmful if swallowed. H319: Causes serious eye irritation. H317: May cause an allergic skin reaction. H360F: May damage fertility. H336: May cause drowsiness or dizziness. |
|---|---|
| Specific target organ toxicity - repeated exposure, Category 2 Aspiration hazard, Category 1 | H373: May cause damage to organs through pro- longed or repeated exposure. H304: May be fatal if swallowed and enters air- ways. |
| Short-term (acute) aquatic hazard, Cate- gory 1 | H400: Very toxic to aquatic life. |
| Long-term (chronic) aquatic hazard, Cat- egory 1 | H410: Very toxic to aquatic life with long lasting effects. |

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

| Hazard pictograms | : | | ! |
|-----------------------------------|---|---|---|
| Signal word | : | Danger | \mathbf{v} |
| Hazard statements | : | H302 H304 H317 H319 H336 H360F H373 H410 | Harmful if swallowed. May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. May damage fertility. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects. |
| Supplemental Hazard Statements | : | EUH066 | Repeated exposure may cause skin dryness or cracking. |
| Precautionary statements | : | Prevention P201 P273 P280 Response: P301 + P31 P308 + P31 P391 | Obtain special instructions before use. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection. |

Hazardous components which must be listed on the label: Hydrocarbons, C10, aromatics, <1% naphthalene 4-Nonylphenol, branched, ethoxylated amitraz (ISO) Bis(2,6-diisopropylphenyl)carbodiimide

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. According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|--|---|--|--------------------------|
| Hydrocarbons, C10, aromatics, <1% naphthalene | 64742-94-5 | STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411 | >= 50 - < 70 |
| 4-Nonylphenol, branched, ethoxylat- ed | 127087-87-0 | Acute Tox. 4; H302 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10 | >= 10 - < 20 |
| amitraz (ISO) | 33089-61-1 251-375-4 612-086-00-2 | Acute Tox. 4; H302 Skin Sens. 1B; H317 STOT RE 2; H373 (Liver, Central nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic | >= 10 - < 20 |
| Bis(2,6- diisopropylphenyl)carbodiimide | 2162-74-5 218-487-5 | aquatic toxicity): 10 Acute Tox. 4; H302 Repr. 1B; H360F STOT RE 1; H372 (Kidney, Heart, Gastrointestinal tract, Lymph nodes) Aquatic Chronic 4; H413 | >= 1 - < 2.5 |

Alternative CAS Numbers for some regions

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

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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

| 4.1 Description of first aid measure | 9S |
|--------------------------------------|---|
| General advice : | In the case of accident or if you feel unwell, seek medical ad- vice 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. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. |
| In case of eye contact : | In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention. |
| 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 delaved |
| Risks : | Harmful if swallowed. May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. May damage fertility. May cause damage to organs through prolonged or repeated exposure. Repeated exposure may cause skin dryness or cracking. |
| 4.3 Indication of any immediate me | dical attention and special treatment needed |
| Treatment : | Treat symptomatically and supportively. |

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SECTION 5: Firefighting measures

5.1 Extinguishing media

| | Suitable extinguishing media | : | Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical |
|-----|---|-----|---|
| | Unsuitable extinguishing media | : | None known. |
| 5.2 | Special hazards arising from | the | e substance or mixture |
| | Specific hazards during fire- fighting | : | Exposure to combustion products may be a hazard to health. |
| | Hazardous combustion prod- ucts | : | Carbon oxides Nitrogen oxides (NOx) |
| 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 meth- ods | : | Use extinguishing measures that are appropriate to local cir- cumstances 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 | : | Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective 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. If spillage enters rivers or watercourses, inform the Environ- ment Agency (emergency telephone number 0800 807060). |

6.3 Methods and material for containment and cleaning up

| Methods for cleaning up | : | Soak up with inert absorbent material. | |
|-------------------------|---|--|--|
| | | For large spills, provide dyking or other appropriate contain- | |

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| | | be pumped, sto Clean up remain bent. Local or nationa posal of this ma employed in the mine which regu Sections 13 and | aterial from spreading. If dyked material can re recovered material in appropriate container. hing materials from spill with suitable absor- Il regulations may apply to releases and dis- terial, as well as those materials and items cleanup of releases. You will need to deter- ulations are applicable. I 15 of this SDS provide information regarding hational 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. |
| Advice on safe handling | ventilation. Do not get on skin or clothing. Do not breathe mist or vapours. Do not swallow. Do not get in eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and practice, based on the results of the workplace exposit sessment Keep container tightly closed. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize releas 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. Wash contami- nated 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, i | inc | luding 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. |
| Advice on common storage | : | Do not store with the following product types: |

Strong oxidizing agents

Organic peroxides

Self-reactive substances and mixtures

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|----------------|----------------------------------|------------------------------|---|
| | | Explosives Gases | |
| • | c end use(s) ic use(s) | : No data avail | able |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|---------------|------------|-------------------------------|--------------------|----------|
| amitraz (ISO) | 33089-61-1 | TWA | 10 µg/m3 (OEB 3) | Internal |
| | | Wipe limit | 1250 μg/100 cm² | Internal |

Derived No Effect Level (DNEL):

| Substance name | End Use | Exposure routes | Potential health ef- fects | Value |
|---|-----------|-----------------|-------------------------------|-----------------------|
| Bis(2,6- diiso- propylphenyl)carbodii mide | Workers | Inhalation | Long-term systemic effects | 0.094 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 0.013 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 0.023 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 0.007 mg/kg bw/day |
| | Consumers | Skin contact | Acute systemic ef- fects | 20 mg/kg bw/day |
| | Consumers | Ingestion | Long-term systemic effects | 0.007 mg/kg bw/day |
| | Consumers | Ingestion | Acute systemic ef- fects | 0.021 mg/kg bw/day |
| Hydrocarbons, C10, aromatics, <1% naph- thalene | Workers | Inhalation | Long-term systemic effects | 151 mg/m3 |
| | Workers | Skin contact | Long-term systemic effects | 12.5 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic effects | 32 mg/m3 |
| | Consumers | Skin contact | Long-term systemic effects | 7.5 mg/kg bw/day |
| | Consumers | Ingestion | Long-term systemic effects | 7.5 mg/kg bw/day |

Predicted No Effect Concentration (PNEC):

 Substance name
 Environmental Compartment
 Value





weight (d.w.)

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|-----------------|-------------------------------|------|-------------------------|---|----------------------------------|
| Bis(2 diisop | ,6- propylphenyl)carbodiir | nide | Fresh water | | 0.0001 mg/l |
| | | | Marine water | | 0.00001 mg/l |
| | | | Intermittent us | e/release | 0.001 mg/l |
| | | | Sewage treatn | nent plant | 10 mg/l |
| | | | Fresh water se | ediment | 5.461 mg/kg dry weight (d.w.) |
| | | | Soil | | 4.445 mg/kg dry |

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.

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 potential for direct contact to the face with dusts, mists, or aerosols. |
|-------------------------------------|---|---|
| Hand protection | | |
| Material | : | Chemical-resistant gloves |
| Remarks Skin and body protection | : | Consider double gloving. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially |
| | | contaminated clothing. |
| Respiratory protection | : | If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to BS 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

| Appearance | : liquid |
|-----------------|--|
| Colour | : yellow |
| Odour | : characteristic, aromatic, hydrocarbon-like |
| Odour Threshold | : No data available |

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|------------|------------------|--|---|--|---|
| | | | | | |
| | рН | | : | No data available | 9 |
| | Melting | point/freezing point | : | Not applicable | |
| | | oiling point and boiling | : | No data available | 9 |
| | range Flash p | point | : | 106 °C | |
| | Evapoi | ration rate | : | No data available | 9 |
| | Flamm | ability (solid, gas) | : | Not applicable | |
| | | explosion limit / Upper ability limit | : | No data available | 9 |
| | | explosion limit / Lower ability limit | : | No data available | e |
| | Vapou | r pressure | : | No data available | 9 |
| | Relativ | e vapour density | : | No data available | e |
| | Relativ | e density | : | No data available | e |
| | Density | y | : | No data available | e |
| | | ter solubility n coefficient: n- | : | No data available No data available | |
| | | inition temperature | : | No data available | 9 |
| | Decom | position temperature | : | No data available | 9 |
| | Viscos Viso | ity cosity, kinematic | : | No data available | e |
| | Explos | ive properties | : | Not explosive | |
| | Oxidizi | ng properties | : | The substance o | r mixture is not classified as oxidizing. |
| 9.2 | Other in | nformation | | | |
| | Flamm | ability (liquids) | : | Not applicable | |
| | Molecu | ılar weight | : | No data available | e |
| | Particle | e size | : | Not applicable | |

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| | | | |

SECTION 10: Stability and reactivity

1

| 10.1 Reactivity Not classified as a reactivity ha | zard. |
|---|---|
| 10.2 Chemical stability Stable under normal conditions | |
| 10.3 Possibility of hazardous read | tions |
| Hazardous reactions | : Can react with strong oxidizing agents. |
| 10.4 Conditions to avoid | |
| Conditions to avoid | : None known. |
| 10.5 Incompatible materials | |
| Materials to avoid | : Oxidizing agents |
| 10.6 Hazardous decomposition pr | |
| No hazardous decomposition p | roducts are known. |
| SECTION 11: Toxicological info 11.1 Information on toxicological | |
| Information on likely routes of exposure | |
| Acute toxicity Harmful if swallowed. | |
| Product: | |
| Acute oral toxicity | : Acute toxicity estimate: 1,505 mg/kg Method: Calculation method |
| Components: | |
| Hydrocarbons, C10, aromatic | s, <1% naphthalene: |
| Acute oral toxicity | : LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 420 Remarks: Based on data from similar materials |

| Acute inhalation toxicity | : | LC50 (Rat): > 4.778 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Remarks: Based on data from similar materials |
|---------------------------|---|--|
| Acute dermal toxicity | : | LD50 (Rabbit): > 2,000 mg/kg |

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| | | Asse toxic | essment: The | est Guideline 402 substance or mixture has no acute dermal on data from similar materials |
| 4-No | nylphenol, branched | , ethoxylate | ed: | |
| Acute | e oral toxicity | | | 0 - 2,000 mg/kg on data from similar materials |
| Acute | e dermal toxicity | : LD50 |) (Rabbit): > | 2,000 mg/kg |
| amitr | az (ISO): | | | |
| Acute | e oral toxicity | : LD50 | 0 (Rat): > 40 | 0 mg/kg |
| | | LD50 |) (Mouse): > | 1,085 mg/kg |
| | | LD50 |) (Guinea pię | g): > 400 mg/kg |
| Acute | e inhalation toxicity | : Rem | arks: No dat | a available |
| Acute | e dermal toxicity | : LD50 | 0 (Rat): > 1,6 | 600 mg/kg |
| Bis(2 | .,6-diisopropylpheny |)carbodiim | ide: | |
| Acute | e oral toxicity | | | 0 - 2,000 mg/kg ēst Guideline 423 |
| Acute | e dermal toxicity | Meth | ssment: The | 000 mg/kg Test Guideline 402 e substance or mixture has no acute dermal |
| - | corrosion/irritation | | | |
| • | ated exposure may ca | use skin dry | ness or crac | cking. |
| | ponents: | | | |
| | ocarbons, C10, arom ssment | | - | e: ure may cause skin dryness or cracking. |
| ASSE | SSMent | . Kept | ealeu exposi | are may cause skin dryness of cracking. |
| amitr | az (ISO): | | | |
| Spec Resu | | : Rabi : No s | oit kin irritation | |
| Bis(2 | 6-diisopropylpheny |)carbodiim | ide: | |
| Spec | ies | : Rabl | bit | |
| Metho Resu | | | D Test Guid kin irritation | eline 404 |
| i vesu | n. | . 1105 | | |

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Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Hydrocarbons, C10, aromatics, <1% naphthalene:

| Species Result Remarks | : | 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 |

amitraz (ISO):

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

Bis(2,6-diisopropylphenyl)carbodiimide:

| Species Method Result | : | 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:

Hydrocarbons, C10, aromatics, <1% naphthalene:

| : | Maximisation Test |
|---|--------------------------------------|
| : | Skin contact |
| : | Guinea pig |
| : | negative |
| : | Based on data from similar materials |
| | : |

4-Nonylphenol, branched, ethoxylated:

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

amitraz (ISO):

| Test Type | : Maximisation Test |
|---|---------------------|
| Exposure routes | : Dermal |
| Test Type Exposure routes Species | : Guinea pig |

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|---|---|---|--|--|--|
| Resu | Result : | | | | |
| Test | sure routes es od | I)carbodiimide: : Maximisation T : Skin contact : Guinea pig : OECD Test Gu : negative | | | |
| Germ cell mutagenicity Not classified based on available information. Components: | | | | | |
| Hydro | ocarbons, C10, arom | atics, <1% naphthale | ene: | | |
| | toxicity in vitro | : Test Type: In v malian cells Result: negativ | itro sister chromatid exchange assay in mam- | | |
| Geno | toxicity in vivo | cytogenetic tes Species: Rat Application Ro Result: negativ | agenicity (in vivo mammalian bone-marrow t, chromosomal analysis) ute: inhalation (vapour) e ed on data from similar materials | | |
| 11 /-No | winhenol branched | ethoxylated. | | | |
| | 4-Nonylphenol, branched, etho Genotoxicity in vitro : | | cterial reverse mutation assay (AMES) e | | |
| | | | A damage and repair, unscheduled DNA syn- nalian cells (in vitro) e | | |
| | ((60)) | | | | |
| | amitraz (ISO): Genotoxicity in vitro : | | cterial reverse mutation assay (AMES) e | | |
| | | | Test Type: In vitro mammalian cell gene mutation test Result: negative | | |
| | omosome aberration test in vitro e | | | | |
| | | | A damage and repair, unscheduled DNA syn- nalian cells (in vitro) e | | |
| | | | | | |

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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.

Components:

4-Nonylphenol, branched, ethoxylated:

| Species | : Rat | |
|--|--|--|
| Application Route | : Ingestion | |
| Exposure time | : 2 Years | |
| Result | : negative | |
| Species Application Route Exposure time Result 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 |
| Species Application Route Exposure time NOAEL Result | : negative |
| | |

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

Reproductive toxicity

May damage fertility.

Components:

Hydrocarbons, C10, aromatics, <1% naphthalene:

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

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| Version 5.0 | Revision Date: 06.04.2024 | | Number: 3378-00008 | Date of last issue: 30.09.2023 Date of first issue: 27.08.2021 |
|-----------------|-------------------------------|--------------------------|---|--|
| ment | | A F | Species: Rat Application Route Result: negative Remarks: Based o | : Ingestion on data from similar materials |
| amitra | az (ISO): | | | |
| | s on fertility | S A F | Species: Rat Application Route Fertility: NOAEL: : | generation reproduction toxicity study : Oral > 4.8 mg/kg body weight ant adverse effects were reported |
| Effects | s on foetal develop- | S A F T S | Species: Rat Application Route Developmental To Remarks: No sign | oxicity: NOAEL: 3 mg/kg body weight ificant adverse effects were reported o-foetal development |
| Bis(2) | 6-diisopropylphenyl)d | C F | Developmental To Result: Effects on | oxicity: NOAEL: 5 mg/kg body weight foetal development |
| | s on fertility | : T ta S A N | | |
| | | S | Fest Type: Fertility Species: Rat Application Route Result: positive | |
| Effects | s on foetal develop- | to S A N | Fest Type: Reprod est Species: Rat Application Route Method: OECD Te Result: equivocal | |
| Repro- sessm | ductive toxicity - As- ent | | Clear evidence of ty, based on anim | adverse effects on sexual function and fertil- nal experiments. |

STOT - single exposure

May cause drowsiness or dizziness.

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Components:

Hydrocarbons, C10, aromatics, <1% naphthalene:

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

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:

amitraz (ISO):

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

Bis(2,6-diisopropylphenyl)carbodiimide:

| Exposure routes | : Ingestion |
|-----------------|---|
| Target Organs | : Kidney, Heart, Gastrointestinal tract, Lymph nodes |
| Assessment | : Causes damage to organs through prolonged or repeated |
| 11 | exposure. |

Repeated dose toxicity

Components:

Hydrocarbons, C10, aromatics, <1% naphthalene:

| Species NOAEL Application Route Exposure time Remarks | : 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 |
|---|--|
| LÕAEL | : > 100 mg/kg |
| Application Route | : Ingestion |
| Exposure time | : 90 Days |
| Species LOAEL Application Route Exposure time 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 |

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| Expos | ure time | : 90 Days | system, Liver |
| Target | Organs | : Central nervous | |

Bis(2,6-diisopropylphenyl)carbodiimide:

| Species | : Rat |
|--|-------------|
| NOAEL | : 4 mg/kg |
| LOAEL | : 16 mg/kg |
| Application Route | : Ingestion |
| Application Route Exposure time Method | 0 0 |

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

12.1 Toxicity

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 | : | EL50 (Pseudokirchneriella subcapitata (green algae)): > 1 - 3 | | | |

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| ersion) | Revision Date: 06.04.2024 | | S Number: 73378-00008 | Date of last issue: 30.09.2023 Date of first issue: 27.08.2021 |
|--------------------|---|-----|--|---|
| plants | | | Method: OECD T | Vater Accommodated Fraction |
| 4-Nony | /Iphenol, branched, e | tho | xylated: | |
| Toxicity | y to fish | : | Exposure time: 96 | s promelas (fathead minnow)): > 0.1 - 1 mg 5 h on data from similar materials |
| | y to daphnia and other invertebrates | : | Exposure time: 48 | nia dubia (water flea)): > 0.1 - 1 mg/l 3 h on data from similar materials |
| Toxicity plants | y to algae/aquatic | : | mg/l Exposure time: 72 Method: OECD T | |
| | | | Exposure time: 72 Method: OECD T | |
| M-Fact icity) | or (Acute aquatic tox- | : | 1 | |
| Toxicity icity) | y to fish (Chronic tox- | : | | |
| | y to daphnia and other invertebrates (Chron- ity) | : | NOEC: > 0.001 - Exposure time: 28 Species: Mysidop Remarks: Based | • |
| M-Fact toxicity | or (Chronic aquatic) | : | 10 | |
| amitra | z (ISO): | | | |
| Toxicity | y to fish | : | LC50 (Lepomis m Exposure time: 96 | acrochirus (Bluegill sunfish)): 0.45 mg/l S h |
| | y to daphnia and other invertebrates | : | EC50 (Daphnia m Exposure time: 48 | nagna (Water flea)): 0.035 mg/l 3 h |
| Toxicity plants | y to algae/aquatic | : | NOEC (Pseudokin mg/l Exposure time: 97 | rchneriella subcapitata (green algae)): 0.04 I h |

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|------------------|---|-----|--|---|
| M-Fac icity) | ctor (Acute aquatic tox- | : | 10 | |
| Toxici icity) | ty to fish (Chronic tox- | : | NOEC: 0.00148 m Exposure time: 32 Species: Pimepha | |
| | ty to daphnia and other c invertebrates (Chron- city) | : | NOEC: 0.0011 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) | |
| M-Fac toxicit | ctor (Chronic aquatic y) | : | 10 | |
| Bis(2 | 6-diisopropylphenyl)c | arb | odiimide: | |
| | ty to fish | : | LC50 (Oncorhync Exposure time: 96 Method: OECD Te | |
| | Toxicity to daphnia and other aquatic invertebrates | | EC50 (Daphnia magna (Water flea)): > 1 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: No toxicity at the limit of solubility | |
| Toxici plants | ty to algae/aquatic | : | Exposure time: 72 Method: OECD Te | |
| | | | NOEC (Desmoder Exposure time: 72 Method: OECD Te | |
| Toxici | ty to microorganisms | : | EC50 : > 1,000 m Exposure time: 3 Method: OECD Te | ĥ |

12.2 Persistence and degradability

Components:

| Hydrocarbons | , C10, | aromatics, | <1% | naphthalene: |
|--------------|--------|------------|-----|--------------|
|--------------|--------|------------|-----|--------------|

| Hydrocarbons, C10, aromatics, <1% naphthalene: | | | | |
|--|---|--|--|--|
| Biodegradability | : | Result: Not readily biodegradable. Biodegradation: 49.56 % Exposure time: 28 d Method: OECD Test Guideline 301F | | |

4-Nonylphenol, branched, ethoxylated:

| legradable. ta from similar materials |
|--|
| |

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|----------------|--|--|--|
| Bis(2 | 2,6-diisopropylphenyl) | carbodiimide: | |
| | egradability | : Result: Not readily biodegradable. Biodegradation: 3 % Exposure time: 28 d Method: OECD Test Guideline 301B | |
| 12.3 Bioa | ccumulative potential | | |
| Com | ponents: | | |
| 4-No | nylphenol, branched, | ethoxylated: | |
| | ion coefficient: n- nol/water | : log Pow: < 4 | l de la construcción de la constru |
| amitr | raz (ISO): | | |
| Bioad | ccumulation | | pomis macrochirus (Bluegill sunfish) ation factor (BCF): 1,333 |
| | ion coefficient: n- nol/water | : log Pow: 5.5 | i |
| Bis(2 | 2,6-diisopropylphenyl) | carbodiimide: | |
| Bioad | ccumulation | : Bioconcentr | ation factor (BCF): > 500 |
| | ion coefficient: n- nol/water | : log Pow: > 6 | 5.2 |
| 12.4 Mobi | ility in soil | | |
| Com | ponents: | | |
| amitr | raz (ISO): | | |
| | bution among environ- al compartments | : log Koc: 3.3 | |
| 12.5 Resu | lts of PBT and vPvB | assessment | |
| <u>Prod</u> | uct: | | |
| Asse | ssment | to be either | nce/mixture contains no components considered persistent, bioaccumulative and toxic (PBT), or ent and very bioaccumulative (vPvB) at levels of ner. |
| 12.6 Othe | r adverse effects | | |
| Prod | uct: | | |
| Endo tial | crine disrupting poten- | have endoc | nce/mixture contains components considered to rine disrupting properties for environment accord- EACH Article 57(f). |
| Com | ponents: | - | |
| 4-No | nylphenol, branched, | ethoxylated: | |
| | | - | ce is considered to have endocrine disrupting |

Endocrine disrupting poten- : The substance is considered to have endocrine disrupting

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| tial | | properties acco ment | rding to UK REACH Article 57(f) for environ- |

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- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. |

SECTION 14: Transport information

14.1 UN number

| ADN | : | UN 3082 | |
|-----------------------|-------------|--|-------|
| ADR | : | UN 3082 | |
| RID | : | UN 3082 | |
| IMDG | : | UN 3082 | |
| ΙΑΤΑ | : | UN 3082 | |
| 14.2 UN proper shipp | ing name | | |
| ADN | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIG N.O.S. (amitraz (ISO)) | QUID, |
| ADR | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIG N.O.S. (amitraz (ISO)) | QUID, |
| RID | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIG N.O.S. (amitraz (ISO)) | QUID, |
| IMDG | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIG N.O.S. (amitraz (ISO)) | QUID, |
| ΙΑΤΑ | : | Environmentally hazardous substance, liquid, n.o.s. (amitraz (ISO)) | |
| 14.3 Transport hazard | d class(es) | | |
| | | Class Subsidiary risks | |
| ADN | : | 9 | |

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|--------------|--------------------|---|---|---------------------------|---|
| | ADR | | | 9 | |
| | RID | | | 9 | |
| | IMDG | | | 9 | |
| | IATA | | | 9 | |
| | | ng group | • | 5 | |
| | ADN | | | | |
| | | g group | : | III | |
| | Classif | ication Code | : | M6 | |
| | | I Identification Number | : | 90 | |
| | Labels | | : | 9 | |
| | ADR Dookin | a aroup | | 111 | |
| | | g group ication Code | : | M6 | |
| | | I Identification Number | ÷ | 90 | |
| | Labels | | : | 9 | |
| | Tunnel | restriction code | : | (-) | |
| | RID | | | | |
| | | g group | : | | |
| | | ication Code I Identification Number | ÷ | M6 90 | |
| | Labels | | ÷ | 9 | |
| | IMDG | | | | |
| | | g group | : | III | |
| | Labels | | : | 9 | |
| | EmS C | ode | : | F-A, S-F | |
| | | Cargo) | | | |
| | | g instruction (cargo | : | 964 | |
| | aircraft Packin | g instruction (LQ) | • | Y964 | |
| | | g group | : | III | |
| | Labels | | : | Miscellaneous | |
| | | Passenger) | | | |
| | | g instruction (passen- | : | 964 | |
| | ger airo Packin | g instruction (LQ) | | Y964 | |
| | | g group | ÷ | III | |
| | Labels | | : | Miscellaneous | |
| 14.5 | Enviro | onmental hazards | | | |
| | ADN | | | | |
| | Enviror | nmentally hazardous | : | yes | |
| | ADR | | | | |
| | Enviror | nmentally hazardous | : | yes | |
| | RID | | | | |
| | Enviror | nmentally hazardous | : | yes | |
| | | | | | |

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|----------------------|-------------------------------------|------------------------------|---|
| IMDG Marin | a e pollutant | : yes | |
| | (Passenger) onmentally hazardous | : yes | |

Environmentally hazardous 14.6 Special precautions for user

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

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

: yes

Remarks

IATA (Cargo)

: Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

| UK REACH List of restrictions (Annex 17) | : | Conditions of restriction for the fol- lowing entries should be considered: Number on list 3 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 condi- tions in corresponding Regulation to determine whether an entry is appli- cable to the placing on the market or not. |
|---|---|---|
| | | ed (Number on list 46b, 46a.) |
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation | : | 4-Nonylphenol, branched, ethoxylat- ed |
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) | : | Not applicable |
| Regulation (EC) No 1005/2009 on substances that de- plete the ozone layer | : | Not applicable |
| UK REACH List of substances subject to authorisation (Annex XIV) | : | 4-Nonylphenol, branched, ethoxylat- ed |
| GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation | : | amitraz (ISO) 4-Nonylphenol, branched, ethoxylat- |





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|----------------|------------------------------|---|--|--|---------------------|
| | | | e | ed | |
| Contro | I of Major Accident Ha | zards Regulations 201 | 5 (COMAH |) | |
| E1 | | ENVIRONMENT. HAZARDS | AL | Quantity 1 100 t | Quantity 2 200 t |
| 34 | | Petroleum produc gasolines and na (b) kerosenes (in fuels), (c) gas oils ing diesel fuels, h heating oils and g blending streams heavy fuel oils (e tive fuels serving purposes and wit properties as reg flammability and mental hazards a products referred points (a) to (d) | phthas, cluding jet s (includ- nome gas oil b),(d)) alterna- the same h similar ards environ- as the | 2,500 t | 25,000 t |

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

| The components of this product are reported in the following inventorie | es: |
|---|-----|
|---|-----|

| 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

| H302 | : | Harmful if swallowed. |
|------|---|---|
| H304 | : | May be fatal if swallowed and enters airways. |
| H317 | : | May cause an allergic skin reaction. |

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|---|--|------|---|---|--|--|
| H319 H336 H360F H372 H373 H400 H410 H411 | | : | Causes serious eye irritation. May cause drowsiness or dizziness. May damage fertility. Causes damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. | | | |
| H413 | | : | May cause long lasting harmful effects to aquatic life. | | | |
| Full te | xt of other abbreviat | ions | | | | |
| | c Acute c Chronic ox. it. ens. RE | | | c) aquatic hazard | | |

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; 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; 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 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

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- 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 | eChem Portal search re | Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/ | |
|---|------------------------|--|--|
| Classification of the mixture: | | Classification procedure: | |
| Acute Tox. 4 | H302 | Calculation method | |
| Eye Irrit. 2 | H319 | Calculation method | |
| Skin Sens. 1 | H317 | Calculation method | |
| Repr. 1B | H360F | Calculation method | |
| STOT SE 3 | H336 | Calculation method | |
| STOT RE 2 | H373 | Calculation method | |
| Asp. Tox. 1 | H304 | Based on product data or assessment | |
| Aquatic Acute 1 | H400 | Calculation method | |
| Aquatic Chronic 1 | H410 | 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.

GB / EN