

**Diazinon (47%) Liquid Formulation**

|         |                |                |                                 |
|---------|----------------|----------------|---------------------------------|
| Version | Revision Date: | SDS Number:    | Date of last issue: -           |
| 1.0     | 07.11.2023     | 11292249-00001 | Date of first issue: 07.11.2023 |

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**SECTION 1. IDENTIFICATION**

Product name : Diazinon (47%) Liquid Formulation

**Manufacturer or supplier's details**

Company : MSD

Address : Talcahuano 750, 6th floor, Ciudad Autonoma  
Buenos Aires, Argentina C1013AAP

Telephone : 908-740-4000

Emergency telephone : 1-908-423-6000

E-mail address : EHSDATASTEWARD@msd.com

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

Recommended use : Veterinary product

Restrictions on use : Not applicable

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

Acute toxicity (Oral) : Category 4

Skin corrosion/irritation : Category 2

Serious eye damage/eye irritation : Category 2A

Skin sensitization : Category 1

Germ cell mutagenicity : Category 1B

Carcinogenicity : Category 1B

Specific target organ toxicity - single exposure : Category 1 (Nervous system)

Specific target organ toxicity - single exposure : Category 3

Specific target organ toxicity - repeated exposure : Category 2 (Nervous system)

Aspiration hazard : Category 1

Short-term (acute) aquatic hazard : Category 1

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Long-term (chronic) aquatic hazard : Category 1

**GHS label elements**

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H370 Causes damage to organs (Nervous system).  
H373 May cause damage to organs (Nervous system) through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P260 Do not breathe mist or vapors.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.  
P331 Do NOT induce vomiting.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

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P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.

**Storage:**

P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards which do not result in classification**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Components**

| Chemical name                                                               | CAS-No.     | Concentration (% w/w) |
|-----------------------------------------------------------------------------|-------------|-----------------------|
| Diazinon                                                                    | 333-41-5    | >= 30 -< 50           |
| Solvent naphtha (petroleum), light aromatic                                 | 64742-95-6  | >= 20 -< 25           |
| 4-Nonylphenol, branched, ethoxylated                                        | 127087-87-0 | >= 10 -< 20           |
| 7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate | 2386-87-0   | >= 5 -< 10            |

**Alternative CAS Numbers for some regions**

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

**SECTION 4. FIRST AID MEASURES**

|                         |                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice          | : In the case of accident or if you feel unwell, seek medical advice immediately.<br>When symptoms persist or in all cases of doubt seek medical advice.                                                                                   |
| If inhaled              | : If inhaled, remove to fresh air.<br>Get medical attention.                                                                                                                                                                               |
| In case of skin contact | : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.<br>Get medical attention.<br>Wash clothing before reuse.<br>Thoroughly clean shoes before reuse. |
| In case of eye contact  | : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.<br>If easy to do, remove contact lens, if worn.<br>Get medical attention.                                                                       |
| If swallowed            | : If swallowed, DO NOT induce vomiting.<br>If vomiting occurs have person lean forward.<br>Call a physician or poison control center immediately.                                                                                          |

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|                                                             |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Most important symptoms and effects, both acute and delayed | : | Rinse mouth thoroughly with water.<br>Never give anything by mouth to an unconscious person.<br>Harmful if swallowed.<br>May be fatal if swallowed and enters airways.<br>Causes skin irritation.<br>May cause an allergic skin reaction.<br>Causes serious eye irritation.<br>May cause drowsiness or dizziness.<br>May cause genetic defects.<br>May cause cancer.<br>Causes damage to organs.<br>May cause damage to organs through prolonged or repeated exposure. |
| Protection of first-aiders                                  | : | First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).                                                                                                                                                                                                                                                                                            |
| Notes to physician                                          | : | Treat symptomatically and supportively.                                                                                                                                                                                                                                                                                                                                                                                                                                |

### SECTION 5. FIRE-FIGHTING MEASURES

|                                                |   |                                                                                                                                                                                                                                                 |
|------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                   | : | Water spray<br>Alcohol-resistant foam<br>Carbon dioxide (CO <sub>2</sub> )<br>Dry chemical                                                                                                                                                      |
| Unsuitable extinguishing media                 | : | None known.                                                                                                                                                                                                                                     |
| Specific hazards during fire fighting          | : | Exposure to combustion products may be a hazard to health.                                                                                                                                                                                      |
| Hazardous combustion products                  | : | Carbon oxides<br>Nitrogen oxides (NO <sub>x</sub> )<br>Sulfur oxides<br>Oxides of phosphorus                                                                                                                                                    |
| Specific extinguishing methods                 | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use water spray to cool unopened containers.<br>Remove undamaged containers from fire area if it is safe to do so.<br>Evacuate area. |
| Special protective equipment for fire-fighters | : | In the event of fire, wear self-contained breathing apparatus.<br>Use personal protective equipment.                                                                                                                                            |

### SECTION 6. ACCIDENTAL RELEASE MEASURES

|                                                                     |   |                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.<br>Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).                                                                                                                                                            |
| Environmental precautions                                           | : | Avoid release to the environment.<br>Prevent further leakage or spillage if safe to do so.<br>Prevent spreading over a wide area (e.g., by containment or oil barriers).<br>Retain and dispose of contaminated wash water.<br>Local authorities should be advised if significant spillages cannot be contained. |

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Methods and materials for containment and cleaning up : Soak up with inert absorbent material.  
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.  
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.

**SECTION 7. HANDLING AND STORAGE**

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

Local/Total ventilation : If sufficient ventilation is unavailable, use with local exhaust ventilation.

Advice on safe handling : Do not get on skin or clothing.  
Do not breathe mist or vapors.  
Do not swallow.  
Do not get in eyes.  
Wash skin thoroughly after handling.  
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment  
Keep container tightly closed.  
Do not eat, drink or smoke when using this product.  
Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage : Keep in properly labeled containers.  
Store locked up.  
Keep tightly closed.  
Keep in a cool, well-ventilated place.  
Store in accordance with the particular national regulations.

Materials to avoid : Do not store with the following product types:  
Strong oxidizing agents  
Self-reactive substances and mixtures  
Organic peroxides  
Explosives  
Gases

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with workplace control parameters**

| Components | CAS-No.  | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis  |
|------------|----------|----------------------------------|------------------------------------------------|--------|
| Diazinon   | 333-41-5 | CMP                              | 0,1 mg/m <sup>3</sup>                          | AR OEL |

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|                                             |                                                                        |                                    |                                                 |       |
|---------------------------------------------|------------------------------------------------------------------------|------------------------------------|-------------------------------------------------|-------|
|                                             | Further information: A4 - Not classifiable as a human carcinogen, Skin |                                    |                                                 |       |
|                                             |                                                                        | TWA (Inhalable fraction and vapor) | 0,01 mg/m <sup>3</sup>                          | ACGIH |
| Solvent naphtha (petroleum), light aromatic | 64742-95-6                                                             | TWA                                | 200 mg/m <sup>3</sup> (total hydrocarbon vapor) | ACGIH |

## Biological occupational exposure limits

| Components | CAS-No.  | Control parameters              | Biological specimen | Sampling time | Permissible concentration        | Basis     |
|------------|----------|---------------------------------|---------------------|---------------|----------------------------------|-----------|
| Diazinon   | 333-41-5 | Acetylcholin esterase activity  | In red blood cells  | End of shift  | 70 % of an individual's baseline | ACGIH BEI |
|            |          | Butyrylcholin esterase activity | In serum or plasma  | End of shift  | 60 % of an individual's baseline | ACGIH BEI |

**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

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

**Filter type** : Combined particulates and organic vapor type

**Hand protection**

**Material** : Chemical-resistant gloves

**Remarks** : Consider double gloving.

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

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

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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.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

|                                                  |                     |
|--------------------------------------------------|---------------------|
| Appearance                                       | : liquid            |
| Color                                            | : No data available |
| Odor                                             | : No data available |
| Odor Threshold                                   | : No data available |
| pH                                               | : No data available |
| Melting point/freezing point                     | : No data available |
| Initial boiling point and boiling range          | : No data available |
| Flash point                                      | : No data available |
| Evaporation rate                                 | : No data available |
| Flammability (solid, gas)                        | : Not applicable    |
| Flammability (liquids)                           | : No data available |
| Upper explosion limit / Upper flammability limit | : No data available |
| Lower explosion limit / Lower flammability limit | : No data available |
| Vapor pressure                                   | : No data available |
| Relative vapor density                           | : No data available |
| Relative density                                 | : No data available |
| Density                                          | : No data available |
| Solubility(ies)<br>Water solubility              | : No data available |

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|                                        |   |                                                          |
|----------------------------------------|---|----------------------------------------------------------|
| Partition coefficient: n-octanol/water | : | Not applicable                                           |
| Autoignition temperature               | : | No data available                                        |
| Decomposition temperature              | : | No data available                                        |
| Viscosity                              | : |                                                          |
| Viscosity, kinematic                   | : | No data available                                        |
| Explosive properties                   | : | Not explosive                                            |
| Oxidizing properties                   | : | The substance or mixture is not classified as oxidizing. |
| Molecular weight                       | : | No data available                                        |
| Particle size                          | : | Not applicable                                           |

**SECTION 10. STABILITY AND REACTIVITY**

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

**SECTION 11. TOXICOLOGICAL INFORMATION**

|                                          |   |                                                        |
|------------------------------------------|---|--------------------------------------------------------|
| Information on likely routes of exposure | : | Inhalation<br>Skin contact<br>Ingestion<br>Eye contact |
|------------------------------------------|---|--------------------------------------------------------|

**Acute toxicity**

Harmful if swallowed.

**Product:**

|                       |   |                                                                      |
|-----------------------|---|----------------------------------------------------------------------|
| Acute oral toxicity   | : | Acute toxicity estimate: 1.206 mg/kg<br>Method: Calculation method   |
| Acute dermal toxicity | : | Acute toxicity estimate: > 5.000 mg/kg<br>Method: Calculation method |

**Components:****Diazinon:**

|                           |   |                                                |
|---------------------------|---|------------------------------------------------|
| Acute oral toxicity       | : | LD50 (Rat): 1.139 mg/kg                        |
| Acute inhalation toxicity | : | LC50 (Rat): > 5,437 mg/l<br>Exposure time: 4 h |

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Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): &gt; 2.020 mg/kg

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

Acute oral toxicity : LD50 (Rat): &gt; 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5,61 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rabbit): &gt; 2.000 mg/kg

**4-Nonylphenol, branched, ethoxylated:**Acute oral toxicity : LD50 (Rat): > 300 - 2.000 mg/kg  
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): &gt; 2.000 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  
Method: OECD Test Guideline 401Acute inhalation toxicity : LC50 (Rat): >= 5,19 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 436  
Assessment: The substance or mixture has no acute inhalation toxicityAcute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity**Skin corrosion/irritation**

Causes skin irritation.

**Components:****Diazinon:**Species : Rabbit  
Result : Mild skin irritation**Solvent naphtha (petroleum), light aromatic:**Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Skin irritation**7-Oxabicyclo[4.1.0]hept-3-ylmethyl 7-oxabicyclo[4.1.0]heptane-3-carboxylate:**

Species : Rabbit

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

**Serious eye damage/eye irritation**

Causes serious eye irritation.

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

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

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

|         |   |                                              |
|---------|---|----------------------------------------------|
| Species | : | Rabbit                                       |
| Result  | : | Irritation to eyes, reversing within 21 days |

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

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

**Respiratory or skin sensitization****Skin sensitization**

May cause an allergic skin reaction.

**Respiratory sensitization**

Not classified based on available information.

**Components:****Diazinon:**

|                    |   |              |
|--------------------|---|--------------|
| Test Type          | : | Buehler Test |
| Routes of exposure | : | Skin contact |
| Species            | : | Guinea pig   |
| Result             | : | negative     |

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

|                    |   |              |
|--------------------|---|--------------|
| Test Type          | : | Buehler Test |
| Routes of exposure | : | Skin contact |
| Species            | : | Guinea pig   |
| Result             | : | negative     |

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

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

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

|                    |                                                           |
|--------------------|-----------------------------------------------------------|
| Test Type          | : Maximization Test                                       |
| Routes of exposure | : Skin contact                                            |
| Species            | : Guinea pig                                              |
| Result             | : positive                                                |
| Assessment         | : Probability or evidence of skin sensitization in humans |

**Germ cell mutagenicity**

May cause genetic defects.

**Components:****Diazinon:**

|                                     |                                                                                                                                                                                                                                     |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vitro               | : Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative<br><br>Test Type: In vitro mammalian cell gene mutation test<br>Result: negative<br><br>Test Type: Chromosome aberration test in vitro<br>Result: negative |
| Genotoxicity in vivo                | : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)<br>Species: Rat<br>Application Route: Intraperitoneal injection<br>Result: positive                                                                |
| Germ cell mutagenicity - Assessment | : Positive result(s) from in vivo mammalian somatic cell mutagenicity tests.                                                                                                                                                        |

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

|                                     |                                                                                                                                                           |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Genotoxicity in vitro               | : Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative<br><br>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>Result: negative<br><br>Test Type: DNA damage and repair, unscheduled DNA syn- |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------|

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thesis in mammalian cells (in vitro)

Result: negative

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

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

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

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

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

Genotoxicity in vivo : Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 486  
Result: negative

Test Type: Micronucleus test  
Species: Mouse  
Application Route: Intraperitoneal injection  
Result: negative

Test Type: Transgenic rodent somatic cell gene mutation assay  
Species: Mouse  
Application Route: Ingestion  
Method: OECD Test Guideline 488  
Result: positive

Germ cell mutagenicity - Assessment : Positive result(s) from in vivo mammalian somatic cell mutagenicity tests.

### Carcinogenicity

May cause cancer.

### Components:

#### **Diazinon:**

Species : Rat  
Application Route : Ingestion  
Exposure time : 104 weeks  
Result : negative

Carcinogenicity - Assessment : Sufficient evidence of carcinogenicity in animal experiments

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

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

|                              |                                                                |
|------------------------------|----------------------------------------------------------------|
| Carcinogenicity - Assessment | : Sufficient evidence of carcinogenicity in animal experiments |
|------------------------------|----------------------------------------------------------------|

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

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

**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**

Not classified based on available information.

**Components:****Diazinon:**

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Effects on fertility | : Test Type: Three-generation study<br>Species: Rat<br>Application Route: Ingestion<br>Result: negative |
|----------------------|---------------------------------------------------------------------------------------------------------|

|                              |                                                                                                           |
|------------------------------|-----------------------------------------------------------------------------------------------------------|
| Effects on fetal development | : Test Type: Embryo-fetal development<br>Species: Rat<br>Application Route: Ingestion<br>Result: negative |
|------------------------------|-----------------------------------------------------------------------------------------------------------|

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

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

|                              |                                                                                                                    |
|------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Effects on fetal development | : Test Type: Embryo-fetal development<br>Species: Rat<br>Application Route: inhalation (vapor)<br>Result: negative |
|------------------------------|--------------------------------------------------------------------------------------------------------------------|

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

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Effects on fetal development : Test Type: Embryo-fetal development  
Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 414  
Result: negative

**STOT-single exposure**

May cause drowsiness or dizziness.  
Causes damage to organs (Nervous system).

**Components:****Diazinon:**

|                    |                                                                                                     |
|--------------------|-----------------------------------------------------------------------------------------------------|
| Routes of exposure | : Ingestion                                                                                         |
| Target Organs      | : Nervous system                                                                                    |
| Assessment         | : Shown to produce significant health effects in animals at concentrations of 300 mg/kg bw or less. |

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

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

**STOT-repeated exposure**

May cause damage to organs (Nervous system) through prolonged or repeated exposure.

**Components:****Diazinon:**

|                    |                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------|
| Routes of exposure | : Ingestion                                                                                        |
| Target Organs      | : Nervous system                                                                                   |
| Assessment         | : Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw. |

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

|                    |                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------|
| Routes of exposure | : 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:****Diazinon:**

|                   |                               |
|-------------------|-------------------------------|
| Species           | : Rat                         |
| NOAEL             | : 0,3 mg/kg                   |
| LOAEL             | : 15 mg/kg                    |
| Application Route | : Ingestion                   |
| Exposure time     | : 90 Days                     |
| Species           | : Rat                         |
| NOAEL             | : 0,1 mg/l                    |
| LOAEL             | : 0,75 mg/l                   |
| Application Route | : inhalation (dust/mist/fume) |

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Exposure time : 28 Days

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

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

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

|                   |                                        |
|-------------------|----------------------------------------|
| Species           | : Rat                                  |
| LOAEL             | : > 100 mg/kg                          |
| Application Route | : Ingestion                            |
| Exposure time     | : 90 Days                              |
| Remarks           | : Based on data from similar materials |

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

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

**Aspiration toxicity**

May be fatal if swallowed and enters airways.

**Components:****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.

**Experience with human exposure****Components:****Diazinon:**

|            |                                  |
|------------|----------------------------------|
| Inhalation | : Symptoms: carcinogenic effects |
|------------|----------------------------------|

---

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****Diazinon:**

|                                                     |                                                                                |
|-----------------------------------------------------|--------------------------------------------------------------------------------|
| Toxicity to fish                                    | : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,09 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : EC50 (Ceriodaphnia dubia (water flea)): 0,000164 mg/l<br>Exposure time: 48 h |

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M-Factor (Acute aquatic toxicity) : 1.000

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 0,092 mg/l  
Exposure time: 34 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0,00017 mg/l  
Exposure time: 21 d

M-Factor (Chronic aquatic toxicity) : 100

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

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 8,2 mg/l  
Exposure time: 96 h  
Test substance: Water Accommodated Fraction

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 4,5 mg/l  
Exposure time: 48 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (microalgae)): 3,1 mg/l  
Exposure time: 96 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201

NOELR (Pseudokirchneriella subcapitata (microalgae)): 0,5 mg/l  
Exposure time: 96 h  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 2,6 mg/l  
Exposure time: 21 d  
Test substance: Water Accommodated Fraction  
Method: OECD Test Guideline 211

### 4-Nonylphenol, branched, ethoxylated:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 0,1 - 1 mg/l  
Exposure time: 96 h  
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Ceriodaphnia dubia (water flea)): > 0,1 - 1 mg/l  
Exposure time: 48 h  
Remarks: Based on data from similar materials

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

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Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

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

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

M-Factor (Chronic aquatic toxicity) : 10

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

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 24 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 40 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 110 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Raphidocelis subcapitata (freshwater green alga)): 30 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC10 (activated sludge): 409 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

### **Persistence and degradability**

#### **Components:**

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

Biodegradability : Result: Inherently biodegradable.  
Biodegradation: 94 %  
Exposure time: 25 d

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

Biodegradability : Result: Not readily biodegradable.  
Remarks: Based on data from similar materials

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

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

**Bioaccumulative potential****Components:****Diazinon:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Bioconcentration factor (BCF): 46,9

Partition coefficient: n-octanol/water : log Pow: 3,69

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

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

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

Partition coefficient: n-octanol/water : log Pow: 1,34  
Method: OECD Test Guideline 107

**Mobility in soil**

No data available

**Other adverse effects**

No data available

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

Waste from residues : Do not dispose of waste into sewer.  
Dispose of in accordance with local regulations.  
Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

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

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

**IATA-DGR**

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|                                          |   |                                                                                                         |
|------------------------------------------|---|---------------------------------------------------------------------------------------------------------|
| UN/ID No.                                | : | UN 3082                                                                                                 |
| Proper shipping name                     | : | Environmentally hazardous substance, liquid, n.o.s.<br>(Diazinon, 4-Nonylphenol, branched, ethoxylated) |
| Class                                    | : | 9                                                                                                       |
| Packing group                            | : | III                                                                                                     |
| Labels                                   | : | Miscellaneous                                                                                           |
| Packing instruction (cargo aircraft)     | : | 964                                                                                                     |
| Packing instruction (passenger aircraft) | : | 964                                                                                                     |
| Environmentally hazardous                | : | yes                                                                                                     |

**IMDG-Code**

|                      |   |                                                                                                         |
|----------------------|---|---------------------------------------------------------------------------------------------------------|
| UN number            | : | UN 3082                                                                                                 |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Diazinon, 4-Nonylphenol, branched, ethoxylated) |
| Class                | : | 9                                                                                                       |
| Packing group        | : | III                                                                                                     |
| Labels               | : | 9                                                                                                       |
| EmS Code             | : | F-A, S-F                                                                                                |
| Marine pollutant     | : | yes                                                                                                     |

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

Not applicable for product as supplied.

**Special precautions for user**

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

**SECTION 15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture**

|                                                         |   |                |
|---------------------------------------------------------|---|----------------|
| Argentina. Carcinogenic Substances and Agents Registry. | : | Not applicable |
|---------------------------------------------------------|---|----------------|

|                                                                             |   |                                             |
|-----------------------------------------------------------------------------|---|---------------------------------------------|
| Control of precursors and essential chemicals for the preparation of drugs. | : | Solvent naphtha (petroleum), light aromatic |
|-----------------------------------------------------------------------------|---|---------------------------------------------|

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

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

**SECTION 16. OTHER INFORMATION**

|               |   |            |
|---------------|---|------------|
| Revision Date | : | 07.11.2023 |
| Date format   | : | dd.mm.yyyy |

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**Further information**

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

**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)  
AR OEL : Argentina. Occupational Exposure Limits

ACGIH / TWA : 8-hour, time-weighted average  
AR OEL / CMP : TLV (Threshold Limit Value)

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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

# SAFETY DATA SHEET



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