

Safety Data Sheet in accordance with Regulation (EU) 1907/2006 as amended



Arkophob DAN new liq

0050

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Substance key: 000000524869

Revision Date: 28.04.2024

Version : 4 - 11 / EU

Date of printing : 03.03.2025

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

1.1. Product identifier

Trade name

Arkophob DAN new liq 0050

Material number: 275909

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

Relevant identified uses of the substance or mixture

Industry sector : Textile processing industry

Type of use : Textile auxiliary

1.3. Details of the supplier of the safety data sheet

Identification of the company

ARCHROMATURKEY Kimya Sanayi
ve Ticaret Ltd. Şti.
Gebze Organize Sanayi Bölgesi İhsan Dede Cad. No:124 Gebze
41480 Kocaeli / TURKEY
Telephone no. : +90 262 672 12 12

Information about the substance/mixture

e-mail: PS.MSDS-Europe@archroma.com

1.4. Emergency telephone number

+49 69 2222 5285, +33 1 7211 0003 (24 h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according CLP regulation (Regulation (EC) No. 1272/2008, as amended)

Not a hazardous substance or mixture.

2.2. Label elements

Labelling according CLP regulation (Regulation (EC) No. 1272/2008, as amended)

Not a hazardous substance or mixture.

Sensitizing components / contains :

5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1)
May produce an allergic reaction.

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2.3. Other hazards

No additional hazards are known except those derived from the labelling.
Contains no components identified as PBT or vPvB with a content $\geq 0,1$ %

Contains no component identified as having Endocrine disrupting properties with a content $\geq 0,1$ %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

polyurethane
nonionic

Hazardous ingredients

Alcohol C13-iso, ethoxylated ≥ 2.5 - < 5 EO

Concentration : ≥ 1 - < 3 %

CAS number : 9043-30-5

GHS classification EC

| | | |
|--------------------------|------------|------|
| Eye irritation | Category 2 | H319 |
| Chronic aquatic toxicity | Category 3 | H412 |

3,5-dimethylpyrazole

Concentration : $\geq 0,1$ - $\leq 0,2$ %

CAS number : 67-51-6

EC number: 200-657-5

REACH - Registration number according to article 20(3): 17-2119960905-28-0000

GHS classification EC

| | | |
|--|------------|-------|
| Acute toxicity | Category 4 | H302 |
| Reproductive toxicity | Category 2 | H361d |
| Specific target organ toxicity - repeated exposure | Category 2 | H373 |

5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1)

Concentration : $\geq 0,0002$ - $< 0,0015$ %

CAS number : 55965-84-9

EC number: 911-418-6

Index Number 613-167-00-5

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GHS classification EC

| | | |
|--------------------------|-----------------|------|
| Acute toxicity | Category 3 | H301 |
| Acute toxicity | Category 2 | H330 |
| Acute toxicity | Category 2 | H310 |
| Skin corrosion | Category 1C | H314 |
| Skin sensitisation | Sub-category 1A | H317 |
| Acute aquatic toxicity | Category 1 | H400 |
| Chronic aquatic toxicity | Category 1 | H410 |
| Serious eye damage | Category 1 | H318 |

Specific concentration limits:

| | | |
|--------------------|-----------------|-------------------|
| Skin corrosion | Category 1C | $\geq 0,6 \%$ |
| Skin irritation | Category 2 | $0,06 - < 0,6 \%$ |
| Eye irritation | Category 2 | $0,06 - < 0,6 \%$ |
| Skin sensitisation | Sub-category 1A | $\geq 0,0015 \%$ |
| Serious eye damage | Category 1 | $\geq 0,6 \%$ |

| | |
|---------------------------------------|-----|
| M-Factor (Acute aquatic toxicity) : | 100 |
| M-Factor (Chronic aquatic toxicity) : | 100 |

The text of the H-phrases is shown in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove/Take off immediately all contaminated clothing.
Ensure that the First Aid Personnel are aware of the product involved, and take precautions to protect themselves (e.g. wear personal protection equipment).

After inhalation

If inhaled, remove to fresh air.

After contact with skin

After contact with skin, wash immediately with plenty of soap and water.

After contact with eyes

Rinse immediately with plenty of water and seek medical advice.
Rinse immediately with plenty of water for at least 15 minutes.
Get medical attention immediately if irritation develops and persists.

After ingestion

If swallowed, call a poison control centre or doctor immediately.
Treat symptomatically.

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

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Symptoms

The possible symptoms known are those derived from the labelling (see section 2).

Hazards

No additional hazards are known except those derived from the labelling.

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

Treatment

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

all

Extinguishing media that must not be used for safety reasons

No restrictions

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products:

Carbon oxides

Nitrogen oxides (NO_x)

5.3. Advice for firefighters

Special protective equipment for firefighting

Self-contained breathing apparatus

Full protective suit

Further information

Cool endangered containers with water spray jet.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear suitable protective equipment.

Ventilate the area.

6.2. Environmental precautions

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

The product should not be allowed to enter drains, water courses or the soil.

6.3. Methods and material for containment and cleaning up

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After processing, clean all equipment with the following:
Water

6.4. Reference to other sections

Additional information

Take up as such and consider recycling.
Do not let the liquid drain into rivers, ponds or sewer systems.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

No special measures necessary.
Avoid contact with skin and eyes.

Hygiene measures

This preparation is classified as non-hazardous. However the usual precautions for handling chemicals must be observed to avoid contact with the skin, eyes and respiratory tract. In case of contact with the product, wash the eye immediately with running water and the skin with water and soap.

Advice on protection against fire and explosion

No special measures necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep only in the original container.

Advice on storage compatibility

Avoid storage near incompatible agents (see section 10).
Do not store or transport together with foodstuffs

Further information on storage conditions

Keep containers tightly closed in a cool, well-ventilated place.
Handle and open container with care.
Keep away sources of ignition.

7.3. Specific end use(s)

No further recommendations.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Exposure limit values are not available.

DNEL/DMEL values

3,5-dimethylpyrazole
EC number: 200-657-5

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CAS number : 67-51-6

| Route of exposure | Personnel | Exposure time/Effect | Value | Remarks |
|-------------------|--------------------|----------------------------|-------------|------------------------|
| Inhalation | Workers | Long-term systemic effects | 0,329 mg/m3 | Repeated dose toxicity |
| Inhalation | Workers | Acute systemic effects | | No hazard identified |
| Inhalation | Workers | Long-term local effects | | No hazard identified |
| Inhalation | Workers | Acute local effects | | No hazard identified |
| Dermal | Workers | Long-term systemic effects | 0,093 mg/kg | Repeated dose toxicity |
| Dermal | Workers | Acute systemic effects | | No hazard identified |
| Dermal | Workers | Long-term local effects | | No hazard identified |
| Dermal | Workers | Acute local effects | | No hazard identified |
| Eye contact | Workers | Local effects | | No hazard identified |
| Inhalation | General population | Long-term systemic effects | 0,058 mg/m3 | Repeated dose toxicity |
| Inhalation | General population | Acute systemic effects | | No hazard identified |
| Inhalation | General population | Long-term local effects | | No hazard identified |
| Inhalation | General population | Acute local effects | | No hazard identified |
| Dermal | General population | Long-term systemic effects | 0,033 mg/kg | Repeated dose toxicity |
| Dermal | General population | Acute systemic effects | | No hazard identified |
| Dermal | General population | Long-term local effects | | No hazard identified |
| Dermal | General population | Acute local effects | | No hazard identified |
| Oral | General population | Long-term systemic effects | 0,033 mg/kg | Repeated dose toxicity |
| Oral | General population | Acute systemic effects | | No hazard identified |
| Eye contact | General population | Local effects | | No hazard identified |

5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1)

EC number: 911-418-6

CAS number : 55965-84-9

| Route of exposure | Personnel | Exposure time/Effect | Value | Remarks |
|-------------------|-----------|----------------------------|------------|------------------------|
| Inhalation | Workers | Long-term systemic effects | | No hazard identified |
| Inhalation | Workers | Acute systemic effects | | No hazard identified |
| Inhalation | Workers | Long-term local effects | 0,02 mg/m3 | Repeated dose toxicity |

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| | | | | |
|------------|--------------------|----------------------------|------------|------------------------|
| Inhalation | Workers | Acute local effects | 0,04 mg/m3 | Repeated dose toxicity |
| Dermal | Workers | Long-term systemic effects | | No hazard identified |
| Dermal | Workers | Acute systemic effects | | No hazard identified |
| Dermal | Workers | Long-term local effects | | No hazard identified |
| Inhalation | General population | Long-term systemic effects | | No hazard identified |
| Inhalation | General population | Acute systemic effects | | No hazard identified |
| Inhalation | General population | Long-term local effects | 0,02 mg/m3 | Repeated dose toxicity |
| Inhalation | General population | Acute local effects | 0,04 mg/m3 | Repeated dose toxicity |
| Dermal | General population | Long-term systemic effects | | No hazard identified |
| Dermal | General population | Acute systemic effects | | No hazard identified |
| Dermal | General population | Long-term local effects | | No hazard identified |
| Oral | General population | Long-term systemic effects | 0,09 mg/kg | Repeated dose toxicity |
| Oral | General population | Acute systemic effects | 0,11 mg/kg | Repeated dose toxicity |

PNEC values

3,5-dimethylpyrazole

EC number: 200-657-5

CAS number : 67-51-6

| Environmental compartment | Personnel/Exposure time/Effect | Value |
|---------------------------|--------------------------------|------------|
| Fresh water | | 0,1 mg/l |
| Intermittent use/release | | 1 mg/l |
| Marine water | | 0,01 mg/l |
| Sewage treatment plant | | 0,1 mg/l |
| Fresh water sediment | | 1200 mg/kg |
| Marine sediment | | 120 mg/kg |
| Air | No exposure expected | |
| Soil | | 240 mg/kg |
| Secondary Poisoning | | 0,67 mg/kg |

5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1)

EC number: 911-418-6

CAS number : 55965-84-9

| Environmental compartment | Personnel/Exposure time/Effect | Value |
|---------------------------|--------------------------------|-----------|
| Fresh water | | 3,39 µg/l |

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| | | |
|------------------------|-------------------------|-------------|
| Marine water | | 3,39 µg/l |
| Sewage treatment plant | | 0,23 mg/l |
| Fresh water sediment | | 0,027 mg/kg |
| Marine sediment | | 0,027 mg/kg |
| Air | No exposure expected | |
| Soil | | 0,01 mg/kg |
| Secondary Poisoning | Does not bioaccumulate. | |

8.2. Exposure controls

Appropriate engineering controls

Local ventilation recommended - mechanical ventilation may be used.

General protective measures

Observe the usual precautions for handling chemicals.

Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection : Use respiratory protection in case of insufficient exhaust ventilation or prolonged exposure

Hand protection : Chemical resistant gloves
Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Eye protection : Safety glasses

Body protection : working clothes

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : liquid

Form : Liquid

Colour : white

Odour : none

Odour threshold : not available

Melting point : Not applicable

Boiling point/boiling range : approx. 100 °C (1.013 hPa)

Flammability : Not applicable

Lower explosion limit : not available

Upper explosive limit : not available

Flash point : No flash point - Measure made up to the boiling point.

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| | |
|--|---|
| Ignition temperature : | not available |
| Self-ignition temperature : | Not applicable |
| Thermal decomposition : | not available |
| pH value : | 4,5 - 6,5 (20 °C) |
| Viscosity (kinematic) : | not available |
| Viscosity (dynamic) : | not available |
| Solubility in water : | (20 °C) miscible |
| Octanol/water partition coefficient (log Pow) : | This property is not applicable for mixtures. |
| Vapour pressure : | not available |
| Density : | 1,06 g/cm ³ (20 °C, 1.013 hPa) |
| Relative Density: | approx. 1,06 (20 °C) |
| Vapour density relative to air : | not available |
| Particle size : | Not applicable |

9.2. Other information

| | |
|----------------------------------|--|
| Explosive properties : | Explosive according transport regulation : Not explosive Method : Expert judgement |
| Combustion number : | Not applicable |
| Oxidizing properties : | Type of oxidizing effect : The substance or mixture is not classified as oxidizing. Method : Expert judgement |
| Evaporation rate : | not available |
| Minimum ignition energy : | not available |
| Surface tension : | not available |

SECTION 10: Stability and reactivity

10.1. Reactivity

See section 10.3. "Possibility of hazardous reactions"

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.
Stable

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10.4. Conditions to avoid

None known.

10.5. Incompatible materials

not known

10.6. Hazardous decomposition products

No decomposition if used as directed.

SECTION 11: Toxicological information

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

Information related to the product itself:

| | |
|--|--|
| Acute oral toxicity : | Acute toxicity estimate > 5.000 mg/kg Method : Calculation method |
| Acute dermal toxicity : | not available |
| Acute inhalation toxicity : | not available |
| Irritant effect on skin : | not available |
| Irritant effect on eyes : | not available |
| Sensitization : | not available |
| Repeated dose toxicity: | not available |
| Genetic toxicity in vitro : | not available |
| Carcinogenicity : | not available |
| Developmental toxicity/teratogenicity : | not available |
| Toxicity to reproduction/fertility : | not available |
| Specific target organ toxicity (STOT) - single exposure : | not available |
| Specific target organ toxicity (STOT) - repeated exposure : | not available |
| Aspiration hazard : | No data available |

Information related to the component: Alcohol C13-iso, ethoxylated ≥ 2.5 - < 5 EO

Irritant effect on eyes : Eye irritation

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Information related to the component: 3,5-dimethylpyrazole

| | |
|--|--|
| Acute oral toxicity : | LD50 1.717 mg/kg (Rat) Method : OECD Test Guideline 401 |
| Acute dermal toxicity : | LD50 > 2.000 mg/kg (Rat) Method : OECD Test Guideline 402 |
| Irritant effect on skin : | No skin irritation (Rabbit) Method : OECD Test Guideline 404 |
| Irritant effect on eyes : | No eye irritation (Rabbit) Method : OECD Test Guideline 405 |
| Repeated dose toxicity: | Repeated dose toxicity Route of application: Oral NOAEL: 20 mg/kg (Rat) Method : OECD Test Guideline 422 |
| Genetic toxicity in vitro : | Test type : In vitro gene mutation study in mammalian cells Metabolic activation : with and without Result : negative Method : OECD Test Guideline 476 Test type : In vitro gene mutation study in bacteria Metabolic activation : with and without Result : negative Method : OECD Test Guideline 471 Test type : Chromosome aberration test in vitro Metabolic activation : with and without Result : negative Method : OECD Test Guideline 473 |
| Developmental toxicity/teratogenicity : | Route of application: Oral NOAEL: 60 mg/kg (Rat) NOAEL (maternal): 60 mg/kg (Rat) Method : OECD Test Guideline 422 |
| Toxicity to reproduction/fertility : | One generation study NOAEL parent: 60 mg/kg (Rat) NOAEL F1: 60 mg/kg (Rat) Method : OECD Test Guideline 422 |
| Assessment of toxicity to reproduction : | Some evidence of adverse effects on development, based on animal experiments. |
| Specific target organ toxicity (STOT) - repeated exposure : | Target organs : Liver Assessment : May cause damage to organs through prolonged or repeated exposure. |

Information related to the component: 5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1)

| | |
|------------------------------|--|
| Acute oral toxicity : | LD50 200 mg/kg (Rat) Method : OECD Test Guideline 423 |
|------------------------------|--|

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| Acute dermal toxicity : | LD50 87,12 mg/kg (Rabbit) Method : OECD Test Guideline 402 |
| Acute inhalation toxicity : | LC50 0,81 mg/l (4 h, Rat) Method : OECD Test Guideline 403 |
| Irritant effect on skin : | Corrosive after 1 to 4 hours of exposure (Rabbit) Method : OECD Test Guideline 404 |
| Irritant effect on eyes : | Irreversible effects on the eye (Rabbit) Method : OECD |
| Sensitization : | The product is a skin sensitizer, sub-category 1A. (Mouse) |
| Repeated dose toxicity: | Chronic oral toxicity Route of application: Oral NOAEL: 17,2 mg/kg (Rat) Method : OECD Test Guideline 453 Repeated Dose Toxicity (subchronic study) Route of application: Inhalation NOAEL: 0,34 mg/kg (Rat) LOAEL: 1,15 mg/kg (Rat) Method : OECD Test Guideline 413 Repeated Dose Toxicity (subchronic study) Route of application: Dermal NOAEL: 0,4 mg/kg (Rabbit) Method : OECD Test Guideline 411 |
| Genetic toxicity in vivo : | Chromosome Aberration Test Mouse (CD1, male and female) oral (gavage) Method : OECD Test Guideline 475 negative |
| Genetic toxicity in vitro : | Test type : Bacterial reverse mutation assay Metabolic activation : with and without Result : negative Method : OECD Test Guideline 471 Test type : Mammalian cell gene mutation assay Metabolic activation : with and without Result : positive Method : OECD Test Guideline 476 |
| Developmental toxicity/teratogenicity : | Route of application: oral (gavage) NOAEL: 15 mg/kg (Rat) NOAEL (maternal): 15 mg/kg (Rat) Method : OECD Test Guideline 414 |
| Toxicity to reproduction/fertility : | Two-generation study NOAEL parent: 30 mg/kg (Rat, male and female) NOAEL F1: 300 mg/kg (Rat, male and female) NOAEL F2: 300 mg/kg (Rat, male and female) Method : OECD Test Guideline 416 |

11.2. Information on other hazards

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11.2.1. Endocrine disrupting properties

Information related to the product itself:

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

11.2.2. Other information

Remarks

The mixture consists of ingredient(s) with unknown acute toxicity.

SECTION 12: Ecological information

12.1. Toxicity

Information related to the product itself:

| | |
|-------------------------------------|---|
| Fish toxicity : | not available |
| Fish toxicity (chronic) : | not available |
| Daphnia toxicity : | not available |
| Daphnia toxicity (chronic) : | not available |
| Algae toxicity : | EC50 (Biomass) > 100 mg/l (72 h, Pseudokirchneriella subcapitata (green algae)) Method : OECD Test Guideline 201 |
| Bacteria toxicity : | not available |

Information related to the component: 3,5-dimethylpyrazole

| | |
|----------------------------|--|
| Fish toxicity : | LC50 > 100 mg/l (96 h, Oncorhynchus mykiss (rainbow trout)) Method : OECD Test Guideline 203 |
| Daphnia toxicity : | EC50 > 100 mg/l (48 h, Daphnia magna (Water flea)) Method : OECD Test Guideline 202 |
| Algae toxicity : | EC50 (Growth rate) > 100 mg/l (72 h, Pseudokirchneriella subcapitata (microalgae)) Method : OECD Test Guideline 201 |
| Bacteria toxicity : | EC50 22 mg/l (3 h, activated sludge of a predominantly domestic sewage) Method : OECD Test Guideline 209 |

Information related to the component: 5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1)

| | |
|------------------------|---|
| Fish toxicity : | LC50 0,19 mg/l (96 h, Oncorhynchus mykiss (rainbow trout)) Method : EPA OPP 72-1 |
|------------------------|---|

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|--|--|
| Fish toxicity (chronic) : | NOEC >= 46,4 µg/l (35 d, Danio rerio (zebra fish)) Analytical monitoring : yes Method : OECD Test Guideline 210 |
| Daphnia toxicity : | EC50 0,16 mg/l (48 h, Daphnia magna (Water flea)) Method : EPA OPP 72-2 |
| Daphnia toxicity (chronic) : | NOEC 0,1 mg/l (21 d, Daphnia magna (Water flea)) Analytical monitoring : yes Method : OPP 72-4 (EPA-Guideline): Fish early life stage and aquatic invertebrates life cycle studies |
| Algae toxicity : | EC50 (Growth rate) 19,9 µg/l (72 h, Skeletonema costatum (marine diatom)) Method : OECD Test Guideline 201 |
| Bacteria toxicity : | EC50 4,5 mg/l (3 h, activated sludge of a predominantly domestic sewage) Method : OECD Test Guideline 209 |
| Toxicity to soil-dwelling organisms : | NOEC 8,8 mg/kg (14 d, Eisenia fetida (earthworms)) Method : OECD Test Guideline 207 NOEC 1 mg/kg (28 d, soil dwelling microorganisms) Method : OECD 217 |
| Toxicity to terrestrial plants : | NOEC 1.000 mg/l (21 d) Method : OECD Test Guideline 208 |
| Sediment toxicity : | Hyalella azteca (Scud) Test type : flow-through test Type of sediment : Artificial sediment Duration : 28 d NOEC 3,7 mg/l |

12.2. Persistence and degradability

Information related to the product itself:

| | |
|---|--|
| Physico-chemical eliminability : | not available |
| Biodegradability : | < 10 % (28 d, Dissolved organic carbon (DOC)) Not readily biodegradable. Method : OECD Test Guideline 301F 85 % (28 d, Dissolved organic carbon (DOC)) elimination via adsorption Method : OECD Test Guideline 302B 92,20 % (28 d) Inherently biodegradable. Method : OECD Test Guideline 302B |
| Chemical oxygen demand (COD) : | 535 mg/g |

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Biochemical oxygen demand (BOD5) : < 100 mg/g

Information related to the component: 3,5-dimethylpyrazole

Biodegradability : 42,8 % (28 d, DOC decrease)
Not readily biodegradable.
Method : OECD Test Guideline 301A

Information related to the component: 5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1)

Photodegradation : air
The value is given based on a SAR/AAR approach using OECD Toolbox, DEREK, VEGA QSAR models (Cesar models), etc.

Biodegradability : 47,6 % (28 d, Carbon dioxide (CO₂))
Not readily biodegradable.
Method : OECD Test Guideline 301B

12.3. Bioaccumulative potential

Information related to the product itself:

Bioaccumulation: No information is available on the mixture "as is". If relevant information is available on the substances listed in Chapter 3, it is reported here.

Information related to the component: 3,5-dimethylpyrazole

Bioaccumulation: Bioconcentration factor (BCF): 2,15

Information related to the component: 5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1)

Bioaccumulation: Bioconcentration factor (BCF): 54
Method : OECD Guide-line 305 E

12.4. Mobility in soil

Information related to the product itself:

Transport and distribution between environmental compartments : No information is available on the mixture "as is". If relevant information is available on the substances listed in Chapter 3, it is reported here.

Information related to the component: 3,5-dimethylpyrazole

Transport and distribution between environmental compartments : Adsorption/Soil
Koc : 120000
log Koc : 5,1
Method : OECD Test Guideline 121

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Information related to the component: 5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1)

Transport and distribution between environmental compartments : adsorption (Soil)
Koc : 7,7
Method : OECD Test Guideline 106

12.5. Results of PBT and vPvB assessment

Information related to the product itself:

No information is available on the mixture "as is". If relevant information is available on the substances listed in Chapter 3, it is reported here.

Information related to the component: 3,5-dimethylpyrazole

The substance is not identified as a PBT or as a vPvB substance.

Information related to the component: 5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-Methyl-2,3-dihydroisothiazol-3-one (3:1)

The substance is not identified as a PBT or as a vPvB substance.

12.6. Endocrine disrupting properties

Information related to the product itself:

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

12.7. Other adverse effects

Information related to the product itself:

Additional ecotoxicological remarks

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product

Dispose of in accordance with local regulations.

Uncleaned packaging

Consider recycling.

SECTION 14: Transport information

Section 14.1. to 14.5.

ADR

not restricted

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| | |
|-------------|----------------|
| ADN | not restricted |
| RID | not restricted |
| IATA | not restricted |
| IMDG | not restricted |

14.6. Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7. Maritime transport in bulk according to IMO instruments

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

Other regulations

Apart from the data/regulations specified in this chapter, no further information is available concerning safety, health and environmental protection.

15.2. Chemical safety assessment

Chemical Safety Assessments (CSAs) are available for one or more of the component substances contained in this product.

SECTION 16: Other information

Observe national and local legal requirements

List of the text of the hazard statements mentioned section 3 (H-phrases) :

| | |
|-------|--|
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H310 | Fatal in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H361d | Suspected of damaging the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

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Legend

| | |
|--------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| AOX | Adsorbable organic bound halogens |
| CAS | Chemical Abstracts Service |
| DMEL | Derived Minimal Effect Level (genotoxic substances) |
| DNEL | Derived No Effect Level |
| EC50 | Half maximal effective concentration |
| GHS | Globally Harmonized System |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Lethal Concentration 50% |
| LD50 | Lethal Dose 50% |
| MARPOL | International Convention for the Prevention of Pollution From Ships |
| NOAEC | No Observed Adverse Effect Concentration |
| NOAEL | No Observed Adverse Effect Level |
| NOEC | Non Observed Effect Concentration |
| OEL | Occupational Exposure Limit |
| PBT | Persistent, Bioaccumulative, Toxic |
| PEC | Predicted Environmental Concentration |
| PNEC | Predicted No Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | International Rule for Transport of Dangerous Substances by Railway |
| SVHC | Substances of Very High Concern |
| vPvB | very Persistent and very Bioaccumulative |

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