

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

1.1. Product identifier

| | |
|-----------------------------|--------------------|
| Trade name | : Kaiso |
| Product form | : Mixture |
| Type (Nufarm) | : Country Specific |
| Country (Nufarm) | : Georgia |
| CA Code (Nufarm) | : 2352 |
| Product code | : CA2352 |
| Oracle Recipe Code (Nufarm) | : OR2352 |
| Item codes | : 100004543 |

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

1.2.1. Relevant identified uses

| | |
|------------------------------|--------------------|
| Main use category | : Professional use |
| Use of the substance/mixture | : Insecticide |

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Nufarm S.A.S
Immeuble WEST PLAZA
11 rue du débarcadère
92700 COLOMBES - FRANCE
T +33 1 40 85 50 50 - F +33 1 47 92 25 45
FDS@nufarm.com

1.4. Emergency telephone number

Emergency number : Organisme français INRS +33 1 45 42 59 59; Nufarm S.A.S +33 1 40 85 51 15

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

| | |
|---|------|
| Acute toxicity (oral), Category 4 | H302 |
| Serious eye damage/eye irritation, Category 2 | H319 |
| Hazardous to the aquatic environment – Acute Hazard, Category 1 | H400 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 1 | H410 |
| Full text of H-statements: see section 16 | |

Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Causes serious eye irritation. Causes eye irritation. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

GHS09

Signal word (CLP) : Warning

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| | |
|--------------------------------|--|
| Contains | : Lambda Cyhalothrin; Solvent naphtha (petroleum), heavy arom. |
| Hazard statements (CLP) | : H302 - Harmful if swallowed. H319 - Causes serious eye irritation. H410 - Very toxic to aquatic life with long lasting effects. |
| Precautionary statements (CLP) | : P102 - Keep out of reach of children. P261 - Avoid breathing spray. P264 - Wash hands thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P273 - Avoid release to the environment. P280 - Wear protective gloves, protective clothing, face protection, eye protection. P301+P312 - IF SWALLOWED: Call a doctor, a POISON CENTER if you feel unwell. P330 - Rinse mouth. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P391 - Collect spillage. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
| EUH-statements | : EUH401 - To avoid risks to human health and the environment, comply with the instructions for use. |

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---------|---|
| Hydrocarbons, C10-C13, Aromatics, <1% Naphthalene | (CAS-No.) 64742-94-5 (EC-No.) 922-153-0 (REACH-no) 01-2119451097-39 | 10 - 25 | Asp. Tox. 1, H304 Aquatic Chronic 2, H411 |
| lambda-cyhalothrin (ISO); reaction mass of (S)- α -cyano-3-phenoxybenzyl(Z)-(1R)-cis-3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate and (R)- α -cyano-3-phenoxybenzyl (Z)-(1S)-cis-3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate (1:1) | (CAS-No.) 91465-08-6 (EC-No.) 415-130-7 (EC Index-No.) 607-252-00-6 | 5.21 | Acute Tox. 2 (Inhalation), H330 Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Aquatic Acute 1, H400 (M=10000) Aquatic Chronic 1, H410 (M=10000) |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | (CAS-No.) 68439-57-6 | 1 – 5 | Skin Irrit. 2, H315 Eye Dam. 1, H318 |
| 1,2,3-Propanetricarboxylic acid, 2-hydroxy- | (CAS-No.) 77-92-9 | 1 – 5 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 |

Full text of H- and EUH-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures general | : Call a poison center or a doctor if you feel unwell. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. |
| First-aid measures after skin contact | : After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. |
| First-aid measures after eye contact | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. |
| First-aid measures after ingestion | : Do not induce vomiting. Rinse mouth out with water. Call a poison center or a doctor if you feel unwell. See material safety data sheet. |

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

| | |
|------------------------------------|--------------------------|
| Symptoms/effects after eye contact | : Causes eye irritation. |
|------------------------------------|--------------------------|

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|------------------------------------|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|--------------------------------|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
|--|--------------------------------|

5.3. Advice for firefighters

| | |
|--------------------------------|--|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|--|

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

| | |
|----------------------|----------------------------|
| Emergency procedures | : Ventilate spillage area. |
|----------------------|----------------------------|

6.1.2. For emergency responders

| | |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|---|
| For containment | : Collect spillage. |
| Methods for cleaning up | : Mechanically recover the product. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

6.4. Reference to other sections

For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool.
Storage temperature : > 0 °C
Information on mixed storage : Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children.
Special rules on packaging : Keep only in original container. Store in a closed container.

7.3. Specific end use(s)

Insecticide.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Minimise exposure using measures such as contained and enclosed systems, properly designed and maintained dedicated facilities and suitable general/local exhaust ventilation.

8.2.2. Personal protection equipment

Personal protective equipment:

The recommendations in this section are for employees in manufacturing, formulations and conditioning. For farm users and handlers, please read the product label for suitable personnel protective equipment and apparatus.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

| Type | Field of application | Characteristics | Standard |
|----------------|----------------------|-------------------|----------|
| Safety glasses | | With side shields | EN 166 |

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8.2.2.2. Skin protection

Skin and body protection:

According to the conditions of use, protective gloves, apron, boots, head and face protection must be worn. EN ISO 13982

Hand protection:

Wear suitable gloves resistant to chemical penetration

| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
|-------------------|-------------------------|-------------------|----------------|-------------|--|
| Reusable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | 0.4 | | EN ISO 374 |
| Reusable gloves | Chloroprene rubber (CR) | 6 (> 480 minutes) | 0.5 | | EN ISO 374-1/A1 , EN 16523+A1 (type A) |
| Reusable gloves | Butyl rubber | 6 (> 480 minutes) | 0.7 | | EN ISO 374-1/A1 , EN 16523+A1 (type A) |
| Disposable gloves | | | | | EN ISO 374-1/A1 , EN ISO 374-2 (A,B, or C type) |

Other skin protection

Materials for protective clothing:

| Condition | Material | Standard |
|--|----------|--------------|
| According to the conditions of use, protective gloves, apron, boots, head and face protection must be worn | | EN ISO 13982 |

8.2.2.3. Respiratory protection

Respiratory protection:

Users are advised to consider national Occupational Exposure Limits or other equivalent values. Ensure exposure is below occupational exposure limits (where available).

| Device | Filter type | Condition | Standard |
|------------------------------|-----------------|----------------|----------------|
| Wear respiratory protection. | Type P2, (FFP2) | Dust formation | EN 143, EN 149 |

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke during use. Keep away from children. Remove contaminated clothing. Separate working clothes from town clothes. Wash contaminated clothing before reuse. Wash hands immediately after handling the product. The wearing of PPE will have to be adapted to working conditions and any discomfort felt during the operation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|---------------------|
| Physical state | : Solid |
| Appearance | : Granulate. |
| Colour | : Beige. white. |
| Odour | : characteristic. |
| Odour threshold | : No data available |

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| | |
|---|--|
| pH | : 7.2 @21°C |
| pH solution concentration | : 1 % |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : No data available |
| Freezing point | : Not applicable |
| Boiling point | : No data available |
| Flash point | : Not applicable |
| Auto-ignition temperature | : > 400 °C |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Non flammable. |
| Vapour pressure | : 2 x 10E-7 Pa @20°C |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : Not applicable |
| Density | : 567 kg/m ³ Bulk density |
| Solubility | : No data available |
| Partition coefficient n-octanol/water (Log Pow) | : No data available |
| Viscosity, kinematic | : Not applicable |
| Viscosity, dynamic | : Not applicable |
| Explosive properties | : Product is not explosive. |
| Oxidising properties | : Non oxidizing material according to EC criteria. |
| Explosive limits | : Not applicable |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Moisture.

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

| | |
|-----------------------------|---|
| Acute toxicity (oral) | : Harmful if swallowed. |
| Acute toxicity (dermal) | : Not classified (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : Not classified |

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| | |
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| LD50 oral rat | 300 – 2000 mg/kg |
|---------------|------------------|

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| | |
|-----------------------|--------------|
| LD50 dermal rat | > 2000 mg/kg |
| LC50 Inhalation - Rat | 1.26 mg/l/4h |
| ATE CLP (vapours) | 1.26 mg/l/4h |
| ATE CLP (dust,mist) | 1.26 mg/l/4h |

lambda-cyhalothrin (ISO); reaction mass of (S)- α -cyano-3-phenoxybenzyl(Z)-(1R)-cis-3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate and (R)- α -cyano-3-phenoxybenzyl (Z)-(1S)-cis-3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate (1:1) (91465-08-6)

| | |
|-----------------------|------------------------|
| LD50 oral rat | 92.6 mg/kg female |
| LD50 oral | 79.4 mg/kg rat,male |
| LD50 dermal rat | 1080 mg/kg female |
| LD50 dermal | 1470 mg/kg rat, male |
| LC50 Inhalation - Rat | 0.501 g/m ³ |

| | |
|-----------------------------------|---|
| Skin corrosion/irritation | : Skin irritation pH: 7.2 @21°C |
| Additional information | : rabbit |
| Serious eye damage/irritation | : Causes serious eye irritation. pH: 7.2 @21°C |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met) |
| Germ cell mutagenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Carcinogenicity | : Not classified (Based on available data, the classification criteria are not met) |
| Reproductive toxicity | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-single exposure | : Not classified (Based on available data, the classification criteria are not met) |

1,2,3-Propanetricarboxylic acid, 2-hydroxy- (77-92-9)

| | |
|----------------------|-----------------------------------|
| STOT-single exposure | May cause respiratory irritation. |
|----------------------|-----------------------------------|

| | |
|------------------------|---|
| STOT-repeated exposure | : Not classified (Based on available data, the classification criteria are not met) |
| Aspiration hazard | : Not classified (Based on available data, the classification criteria are not met) |

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| | |
|----------------------|----------------|
| Viscosity, kinematic | Not applicable |
|----------------------|----------------|

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|---|
| Ecology - general | : Very toxic to aquatic life with long lasting effects. |
| Hazardous to the aquatic environment, short-term (acute) | : Very toxic to aquatic life. |
| Hazardous to the aquatic environment, long-term (chronic) | : Very toxic to aquatic life with long lasting effects. |

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| | |
|--------------------|--|
| LC50 96h fish | 0.021 mg/l Oncorhynchus mykiss (Rainbow trout) |
| EC50 48h crustacea | 5 µg/l Daphnia magna (Water flea) |
| EC50 96h algae | 0.005 mg/l Pseudokirchneriella subcapitata (green algae) |

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| | |
|-----------------------------------|---------------------|
| LC50, Eisenia fetida (earthworms) | ≥ 1000 mg/kg (14 d) |
|-----------------------------------|---------------------|

Additional ecotoxicological information

lambda-cyhalothrin (ISO); reaction mass of (S)-α-cyano-3-phenoxybenzyl(Z)-(1R)-cis-3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate and (R)-α-cyano-3-phenoxybenzyl (Z)-(1S)-cis-3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate (1:1) (91465-08-6)

| | |
|-------------------------------------|--|
| LC50 96h fish | 0.000078 mg/l Leuciscus idus (golden orfe) |
| LC50 96h fish | 0.00016 mg/l Ictalurus punctatus (channel catfish) |
| EC50 96h algae | 0.005 mg/l Pseudokirchneriella subcapitata (green algae) |
| ErC50 algae | > 0.3 mg/l |
| NOEC (chronic) | 0.00022 µg/L Mysidopsis bahia (opossum shrimp) |
| NOEC chronic fish | 0.031 µg/L |
| NOEC chronic crustacea | 1.98 ng/l Daphnia magna (Water flea) |
| LD50, Apis mellifera (bee), Contact | 0.91 µg/bee |
| LD50, Apis mellifera (bee) | 0.038 µg a.s/bee |

Hydrocarbons, C10-C13, Aromatics, <1% Naphthalene

| | |
|--------------------|---|
| LC50 96h fish | 0.315 mg/l Crimson Spotted rainbow trout |
| EC50 48h crustacea | 1.1 mg/l Daphnia magna (Water flea) |
| EC50 72h algae | 0.22 mg/l Pseudokirchneriella subcapitata |

12.2. Persistence and degradability

lambda-cyhalothrin (ISO); reaction mass of (S)-α-cyano-3-phenoxybenzyl(Z)-(1R)-cis-3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate and (R)-α-cyano-3-phenoxybenzyl (Z)-(1S)-cis-3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate (1:1) (91465-08-6)

| | |
|----------------|---|
| DT50 | DT50 water = 15.1 d |
| DT50 (Soil) | DT50 soil = 174.6 d |
| Biodegradation | Not easily biodegradable in soil; not persistent in water |

12.3. Bioaccumulative potential

lambda-cyhalothrin (ISO); reaction mass of (S)-α-cyano-3-phenoxybenzyl(Z)-(1R)-cis-3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate and (R)-α-cyano-3-phenoxybenzyl (Z)-(1S)-cis-3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate (1:1) (91465-08-6)

| | |
|---|--|
| BCF - Fish [1] | 3635 |
| Partition coefficient n-octanol/water (Log Pow) | 5.5 (@ 20°C; neutral pH; 97.2 % w/w; no pH effect anticipated) |

12.4. Mobility in soil

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| | |
|---|-------------|
| Partition coefficient n-octanol/water (Log Koc) | Koc = 38000 |
|---|-------------|

lambda-cyhalothrin (ISO); reaction mass of (S)-α-cyano-3-phenoxybenzyl(Z)-(1R)-cis-3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate and (R)-α-cyano-3-phenoxybenzyl (Z)-(1S)-cis-3-(2-chloro-3,3,3-trifluoropropenyl)-2,2-dimethylcyclopropanecarboxylate (1:1) (91465-08-6)

| | |
|------------------|----------------|
| Mobility in soil | Koc 38000 mg/L |
|------------------|----------------|

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12.5. Results of PBT and vPvB assessment

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This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
European List of Waste (LoW) code : 02 01 08* - agrochemical waste containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| 14.1. UN number | | | | |
| UN 3077 | UN 3077 | UN 3077 | UN 3077 | UN 3077 |
| 14.2. UN proper shipping name | | | | |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lambda-cyhalothrin) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lambda-cyhalothrin) | Environmentally hazardous substance, solid, n.o.s. (Lambda-cyhalothrin) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lambda-cyhalothrin) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lambda-cyhalothrin) |
| Transport document description (ADR) | | | | |
| UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lambda-cyhalothrin), 9, III | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lambda-cyhalothrin), 9, III, MARINE POLLUTANT | UN 3077 Environmentally hazardous substance, solid, n.o.s. (Lambda-cyhalothrin), 9, III | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lambda-cyhalothrin), 9, III | UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lambda-cyhalothrin), 9, III |
| 14.3. Transport hazard class(es) | | | | |
| 9 | 9 | 9 | 9 | 9 |
| | | | | |
| 14.4. Packing group | | | | |
| III | III | III | III | III |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment : Yes | Dangerous for the environment : Yes Marine pollutant : Yes | Dangerous for the environment : Yes | Dangerous for the environment : Yes | Dangerous for the environment : Yes |
| No supplementary information available | | | | |

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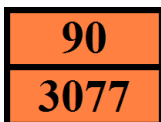
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14.6. Special precautions for user

Overland transport

| | |
|---|---------------------------|
| Classification code (ADR) | : M7 |
| Special provisions (ADR) | : 274, 335, 375, 601 |
| Limited quantities (ADR) | : 5kg |
| Excepted quantities (ADR) | : E1 |
| Packing instructions (ADR) | : P002, IBC08, LP02, R001 |
| Special packing provisions (ADR) | : PP12, B3 |
| Mixed packing provisions (ADR) | : MP10 |
| Portable tank and bulk container instructions (ADR) | : T1, BK1, BK2, BK3 |
| Portable tank and bulk container special provisions (ADR) | : TP33 |
| Tank code (ADR) | : SGAV, LGBV |
| Vehicle for tank carriage | : AT |
| Transport category (ADR) | : 3 |
| Special provisions for carriage - Packages (ADR) | : V13 |
| Special provisions for carriage - Bulk (ADR) | : VC1, VC2 |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13 |
| Hazard identification number (Kemler No.) | : 90 |
| Orange plates | : |



EAC code : 2Z

Transport by sea

| | |
|-----------------------------------|---------------------------|
| Special provisions (IMDG) | : 274, 335, 966, 967, 969 |
| Limited quantities (IMDG) | : 5 kg |
| Excepted quantities (IMDG) | : E1 |
| Packing instructions (IMDG) | : P002, LP02 |
| Special packing provisions (IMDG) | : PP12 |
| IBC packing instructions (IMDG) | : IBC08 |
| IBC special provisions (IMDG) | : B3 |
| Tank instructions (IMDG) | : T1, BK1, BK2, BK3 |
| Tank special provisions (IMDG) | : TP33 |
| EmS-No. (Fire) | : F-A |
| EmS-No. (Spillage) | : S-F |
| Stowage category (IMDG) | : A |
| Stowage and handling (IMDG) | : SW23 |

Air transport

| | |
|--|-------------------------|
| PCA Excepted quantities (IATA) | : E1 |
| PCA Limited quantities (IATA) | : Y956 |
| PCA limited quantity max net quantity (IATA) | : 30kgG |
| PCA packing instructions (IATA) | : 956 |
| PCA max net quantity (IATA) | : 400kg |
| CAO packing instructions (IATA) | : 956 |
| CAO max net quantity (IATA) | : 400kg |
| Special provisions (IATA) | : A97, A158, A179, A197 |
| ERG code (IATA) | : 9L |

Inland waterway transport

| | |
|---------------------------------------|--|
| Classification code (ADN) | : M7 |
| Special provisions (ADN) | : 274, 335, 375, 601 |
| Limited quantities (ADN) | : 5 kg |
| Excepted quantities (ADN) | : E1 |
| Equipment required (ADN) | : PP, A |
| Number of blue cones/lights (ADN) | : 0 |
| Additional requirements/Remarks (ADN) | : * Only in the molten state. ** For carriage in bulk see also 7.1.4.1. *** Only in the case of transport in bulk. |

Rail transport

| | |
|---------------------------|------|
| Classification code (RID) | : M7 |
|---------------------------|------|

Kaiso

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| | |
|---|---------------------------|
| Special provisions (RID) | : 274, 335, 375, 601 |
| Excepted quantities (RID) | : E1 |
| Packing instructions (RID) | : P002, IBC08, LP02, R001 |
| Special packing provisions (RID) | : PP12, B3 |
| Mixed packing provisions (RID) | : MP10 |
| Portable tank and bulk container instructions (RID) | : T1, BK1, BK2, BK3 |
| Portable tank and bulk container special provisions (RID) | : TP33 |
| Tank codes for RID tanks (RID) | : SGAV, LGBV |
| Transport category (RID) | : 3 |
| Special provisions for carriage – Packages (RID) | : W13 |
| Special provisions for carriage – Bulk (RID) | : VC1, VC2 |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW13, CW31 |
| Colis express (express parcels) (RID) | : CE11 |
| Hazard identification number (RID) | : 90 |

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

| No ICPE | Installations classées Désignation de la rubrique | Code Régime | Rayon |
|-----------|---|-------------|-------|
| 4510.text | Dangereux pour l'environnement aquatique de catégorie aiguë 1 ou chronique 1. | | |

Germany

Water hazard class (WGK) : WGK 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

Storage class (LGK, TRGS 510) : LGK 11 - Combustible solids

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

Danish National Regulations : Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

| Indication of changes: | | | |
|------------------------|---|--------|----------|
| Section | Changed item | Change | Comments |
| 2 | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Added | |
| 11.1 | | Added | |
| 12.1 | | Added | |
| 12.2 | | Added | |
| 12.4 | | Added | |

| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Acute Tox. 2 (Inhalation) | Acute toxicity (inhal.), Category 2 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| EUH401 | To avoid risks to human health and the environment, comply with the instructions for use. |

NUFARM SDS TEMPLATE

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.