

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and Regulation (EC) No. 453/2010



KAISO 5% EG

Version 2.0

Revision Date 30.07.2013

Print Date 30.07.2013

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

1.1 Product identifier

Trade name : KAISO 5% EG

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

Use of the Substance/Mixture : Insecticide

1.3 Details of the supplier of the safety data sheet

Company : Nufarm S.A.S
28 boulevard Zéphirin Camélinat
92230 Gennevilliers
Telephone : +330140855050
Telefax : +330147922545
E-mail address : FDS@fr.nufarm.com
Responsible/issuing person

1.4 Emergency telephone number

Nufarm S.A.S. : +33 1 40 85 51 15
National emergency telephone number : not available

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity , Category 4	H302: Harmful if swallowed.
Serious eye damage/eye irritation , Category 2B	H320: Causes eye irritation.
Acute aquatic toxicity , Category 1	H400: Very toxic to aquatic life.
Chronic aquatic toxicity , Category 1	H410: Very toxic to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

R22: Harmful if swallowed.

R36: Irritating to eyes.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms	:		
Signal word	:	Warning	
Precautionary statements	:	P102 Keep out of reach of children. Prevention: P261 Avoid breathing spray. P273 Avoid release to the environment. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P281 Use personal protective equipment as required. Response: 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. P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. P330 Rinse mouth. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.	

2.3 Other hazards

A Chemical Safety Assessment is not required for this mixture.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Emulsifiable granule (EG)

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
Lambda-cyhalothrin	91465-08-6 415-130-7	T+; R21-R25-R26 N; R50/53	Acute Tox. 2; H330 Acute Tox. 3; H301 Acute Tox. 4; H312 Aquatic Acute 1; H400 Aquatic Chronic 1;	5 %

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			H410	
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	Xn; R65 R66 R67 N; R51/53	Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411	10% - 25%

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- If inhaled : Move to fresh air.
If symptoms persist, call a physician.
- In case of skin contact : Take off all contaminated clothing immediately.
Wash immediately affected parts with plenty of water and soap.
- In case of eye contact : Rinse immediately with plenty of water for at least 15 minutes.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water.
Do NOT induce vomiting.
If swallowed, seek medical advice immediately and show this container or label.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Symptomatic treatment

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Water spray, Sand, Foam, Carbon dioxide (CO₂)
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). In the event of fire

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(COx) may be formed.

Hazardous combustion products :

5.3 Advice for firefighters

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

Further information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Avoid contact with skin, eyes and clothing.
Never return spills in original containers for re-use.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Pick up and transfer to properly labelled containers.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8.

Hygiene measures : Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep out of reach of children. Store in original container. To keep away from moisture Store at temperature above 0°C

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Advice on common storage : Keep away from food, drink and animal feeding stuffs.

7.3 Specific end use(s)

Specific use(s) : none

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

If the sub-section is blank, no value is applicable.

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

Hand protection

Material : Nitrile gloves

Skin and body protection : Long sleeved clothing

Respiratory protection : Effective dust mask.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : granules

Colour : brownish

Odour : no data available

Odour Threshold : not determined

pH : 7,2, Concentration: 10,00 g/l
at 21 °C

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Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: not applicable
Evaporation rate	: not applicable
Flammability (solid, gas)	: no data available
Lower explosion limit	: no data available
Upper explosion limit	: no data available
Vapour pressure	: negligible
Relative vapor density	: not applicable
Relative density	: no data available
Bulk density	: 567 kg/m ³
Water solubility	: no data available
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: not applicable
Viscosity, kinematic	: not applicable
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

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Conditions to avoid : Exposure to moisture.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products : No decomposition if stored and applied as directed.

Other information : No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity : LD50 rat, female: < 2.000 mg/kg

Acute dermal toxicity : LD50 rat: > 2.000 mg/kg

Skin corrosion/irritation : Species: rabbit
Result: No skin irritation

Serious eye damage/eye irritation : Species: rabbit
Result: Irritating to eyes.

Respiratory or skin sensitization : Result: Did not cause sensitization.

STOT - single exposure : Remarks: no data available

STOT - repeated exposure : Remarks: no data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,008 mg/l
Exposure time: 96 h
Test Method: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,005 mg/l
Exposure time: 48 h
Test Method: static test

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Toxicity to algae : EC50 (Toxicity to algae): > 0,3 mg/l
Test substance: lambda-cyhalothrin

12.2 Persistence and degradability

Product:

Biodegradability : no data available

Physico-chemical
removability : no data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation : no data available

12.4 Mobility in soil

Product:

Mobility : no data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : A Chemical Safety Assessment is not required for this mixture.

12.6 Other adverse effects

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not empty into drains.
Dispose of in accordance with local regulations.
Do not dispose of together with household waste.

Contaminated packaging : Do not re-use empty containers.
Dispose of empty packages through the specific collection services.

SECTION 14: Transport information

14.1 UN number

ADR : 3077
IMDG : 3077
IATA : 3077

14.2 Proper shipping name

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ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID,
N.O.S. (Lambda-cyhalothrin)
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID,
N.O.S.
IATA : ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID,
N.O.S.

14.3 Transport hazard class

ADR : 9
IMDG : 9
IATA : 9

14.4 Packing group

ADR
Labels : 9
Tunnel restriction code : (E)

IMDG
Packaging group : III
Labels : 9

IATA
Packaging group : III
Labels : 9

14.5 Environmental hazards

ADR
Environmentally hazardous : no

IMDG
Marine Pollutant : yes

IATA
Environmentally hazardous : no

14.6 Special precautions for user

For personal protection see section 8.

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

Remarks : not applicable

SECTION 15: Regulatory information

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

15.2 Chemical Safety Assessment

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A Chemical Safety Assessment is not required for this mixture.

SECTION 16: Other information

Full text of R-Phrases

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Asp. Tox.	Aspiration hazard
R21	Harmful in contact with skin.
R25	Toxic if swallowed.
R26	Very toxic by inhalation.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of H-Statements

H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H330	Fatal if inhaled.
H336	May cause drowsiness or dizziness.
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.

Further information

Other information : Alterations are indicated in the left hand margin by: II
This version replaces all previous versions.

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.