

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

1.1. Product identifier

Product name: KARIS 10 CS

Product code: 10242

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

Use of substance / mixture: Can be used as insecticide only.

1.3. Details of the supplier of the safety data sheet

Company name: Headland Agrochemicals

Rectors Lane

Pentre

Flintshire

CH5 2DH

United Kingdom

Tel: +44(0)1244 537370

Fax: +44(0)1244 532097

Email: flintshire.enquiry@fmc.com

1.4. Emergency telephone number

Emergency tel: +44(0)1244 537370

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: * Acute Tox. 4: H302+332; Aquatic Chronic 1: H410; -: EUH401

Most important adverse effects: Harmful if swallowed or if inhaled. Very toxic to aquatic life with long lasting effects. To avoid risks to human health and the environment, comply with the instructions for use.

2.2. Label elements

Label elements:

Hazard statements: * H302+332: Harmful if swallowed or if inhaled.

H410: Very toxic to aquatic life with long lasting effects.

EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

Signal words: * Warning

Hazard pictograms: * GHS07: Exclamation mark

GHS09: Environmental

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Precautionary statements: * P261: Avoid breathing vapours/spray.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P312: Call a POISON CENTER/doctor//if you feel unwell.
P391: Collect spillage.
P501: Dispose of contents/container to hazardous or special waste collection point.

2.3. Other hazards

Other hazards: No data available.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

LAMBDA-CYHALOTHRIN

EINECS	CAS	PBT / WEL	CLP Classification	Percent
415-130-7	91465-08-6	-	Acute Tox. 2: H330; Acute Tox. 3: H301; Acute Tox. 4: H312; Aquatic Acute 1: H400; Aquatic Chronic 1: H410	10-30%

HYDROCARBONS, C10-C13, AROMATICS, <1% NAPHTHALENE - REACH registered number(s): 01-2119451097-39-XXXX

922-153-0	-	-	Asp. Tox. 1: H304; Aquatic Chronic 3: H412; -: EUH066	1-10%
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LIGNOSULPHONIC ACID, SODIUM SALT, SULFOMETHYLATED

-	68512-34-5	-	Eye Irrit. 2: H319	1-10%
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Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes.

Ingestion: Do not induce vomiting. Transfer to hospital as soon as possible.

Inhalation: * Remove casualty from exposure ensuring one's own safety whilst doing so. If breathing has stopped or become irregular, administer artificial respiration. Keep patient warm and at rest. Call a physician or Poison Control Centre immediately.

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

Skin contact: There may be mild irritation at the site of contact. May cause transient sensitisation, such as tingling/numbness on exposed areas (paresthesia), lasting up to 24 hours.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat. Nausea and stomach pain may occur. There may be vomiting and diarrhoea.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Absorption through the lungs can occur causing symptoms similar to those of ingestion.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: Immediate medical attention is required in case of ingestion. Show this safety data sheet to the doctor in attendance.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Water spray. Carbon dioxide. Dry chemical powder. Foam. Use water spray to cool containers. Do not use high volume water jet.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

5.3. Advice for fire-fighters

Advice for fire-fighters: * Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes. Contaminated fire extinguishing water should not be discharged into drains, if preventable.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: * Refer to section 8 of SDS for personal protection details. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. In the case of large spills (1 ton or more), alert the appropriate authorities.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding. Accidental release into water courses must be alerted to the appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Refer to section 13 of SDS for suitable method of disposal.

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6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: * Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air. Do not eat, drink or smoke in work areas. Use personal protective equipment to avoid contact with skin, eyes and personal clothing. Avoid breathing spray. Keep out of reach of children. Wash hands after use. Remove contaminated clothing immediately after handling, then wash thoroughly and put on clean clothes. Keep away from sources of ignition and protect from exposure to fire and heat.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: * Store in a cool, well ventilated area. Keep container tightly closed. Keep out of the reach of children. Keep away from food, drink and animal feedstuffs. Do not store with oxidising agents.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): This product is a registered pesticide, which may only be used for the applications it is registered for, in accordance with a label approved by the regulatory authorities.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

Hazardous ingredients:

HYDROCARBONS, C10-C13, AROMATICS, <1% NAPHTHALENE

Type	Exposure	Value	Population	Effect
DNEL	Dermal	12.5 mg/kg/day	Workers	Systemic
DNEL	Inhalation	150 mg/m ³	Workers	Systemic
DNEL	Oral	7.5 mg/kg/day	Consumers	Systemic
DNEL	Dermal	7.5 mg/kg/day	Consumers	Systemic
DNEL	Inhalation	32 mg/m ³	Consumers	Systemic

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: If workplace exposure limits are exceeded, or a heavy aerosol or mist is formed, use respiratory protection with filter type A or environment-independent breathing apparatus.

Hand protection: Wear suitable protective gloves, checked according to EN 374. Replace gloves

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immediately when damaged or worn. Design operations to avoid permanent use of protective gloves.

Eye protection: Tightly fitting safety goggles. Wear goggles conforming to EN166 (Field of Use 5 or equivalent). Ensure eye bath is to hand.

Skin protection: Impermeable protective clothing.

Environmental: Refer to specific Member State legislation for requirements under Community environmental legislation.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Beige

Odour: Slightly aromatic

Solubility in water: Dispersible in water

Viscosity: ~150 mPa.s at 20°C

Boiling point/range°C: >104

Flash point°C: >100

Relative density: ~1.06 g/cm³ (20°)

pH: ~5.5 (20°C)

9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

10.4. Conditions to avoid

Conditions to avoid: Heat. Sources of ignition.

10.5. Incompatible materials

Materials to avoid: Oxidising agents.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

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Toxicity values:

Route	Species	Test	Value	Units
DUST/MIST	RAT	4H LC50	2.78	mg/l
DERMAL	RAT	LD50	>2000	mg/kg
ORAL	RAT(f)	LD50	300 - 2000	mg/kg

Hazardous ingredients:

LAMBDA-CYHALOTHRIN

DERMAL	RAT	LD50	632	mg/kg
INHALATION	RAT	4H LC50	0.06	mg/l
ORAL	RAT	LD50	56	mg/kg

HYDROCARBONS, C10-C13, AROMATICS, <1% NAPHTHALENE

ORAL	RAT	LD50	>=10000	mg/kg
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Relevant hazards for substance:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	INH ING	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact. May cause transient sensitisation, such as tingling/numbness on exposed areas (paresthesia), lasting up to 24 hours.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat. Nausea and stomach pain may occur. There may be vomiting and diarrhoea.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Absorption through the lungs can occur causing symptoms similar to those of ingestion.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Test	Value	Units
ALGAE (<i>Desmodesmus subspicatus</i>)	96H ErC50	23.84	mg/l
DAPHNID (<i>Daphnia magna</i>)	48H EC50	0.043	mg/l
RAINBOW TROUT (<i>Oncorhynchus mykiss</i>)	96H LC50	0.0151	mg/l

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Hazardous ingredients:

LAMBDA-CYHALOTHRIN

ALGAE (Raphidocelis subcapitata)	72H ErC50	>1	mg/l
DAPHNID (Daphnia magna)	48H EC50	0.36	µg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	0.44	µg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H NOEC	0.12	µg/l

HYDROCARBONS, C10-C13, AROMATICS, <1% NAPHTHALENE

ALGAE (Raphidocelis subcapitata)	72H EbC50	3.8	mg/l
ALGAE (Raphidocelis subcapitata)	72H ErL50	7.9	mg/l
ALGAE (Raphidocelis subcapitata)	72H NOEL	0.22	mg/l
DAPHNID (Daphnia magna)	48H EL50	1.1	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LL50	3.6	mg/l

12.2. Persistence and degradability

Persistence and degradability: No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: No data available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company. Do not contaminate ponds, waterways or ditches with chemical or used containers. Do not discharge to sewer systems.

Waste code number: 02 01 08

Disposal of packaging: Completely discharge containers. Do not reuse product container.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

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14.1. UN number

UN number: UN3082

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(LAMBDA-CYHALOTHRIN)

14.3. Transport hazard class(es)

Transport class: 9

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: Yes

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: E

Transport category: 3

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk: The product is not transported in bulk tankers.

Section 15: Regulatory information

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

Specific regulations: Product Registration Number: MAPP 16747.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: EUH066: Repeated exposure may cause skin dryness or cracking.

EUH401: To avoid risks to human health and the environment, comply with the instructions for use.

H301: Toxic if swallowed.

H302+332: Harmful if swallowed or if inhaled.

H304: May be fatal if swallowed and enters airways.

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H312: Harmful in contact with skin.

H319: Causes serious eye irritation.

H330: Fatal if inhaled.

H410: Very toxic to aquatic life with long lasting effects.

H412: Harmful to aquatic life with long lasting effects.

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.