

KARIS

Page: 1

Compilation date: 03/06/2013

Revision No: 1

	Revision No: 1
Section 1: Identification of th	e substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name:	KADIS
	of the substance or mixture and uses advised against
1.2. Relevant identified uses	of the substance of mixture and uses advised against
Use of substance / mixture:	An insecticide for use in agriculture and horticulture.
1.3. Details of the supplier of	the safety data sheet
Company name:	Headland Agrochemicals
	Rectors Lane
	Pentre
	Deeside
	Flintshire
	CH5 2DH
	United Kingdom
Tel:	+44(0)1244 537370
Fax:	+44(0)1244 532097
Email:	enquiry@headlandgroup.com
1.4. Emergency telephone nu	mber
Emergency tel:	+44(0)1244 537370
	(office hours only)
Section 2: Hazards identifica	
2.1. Classification of the subs	stance or mixture
Classification under CHIP:	Xn: R20/22; N: R50/53
Most important adverse effects:	Harmful by inhalation and if swallowed. Very toxic to aquatic organisms, may cause
	long-term adverse effects in the aquatic environment.
2.2. Label elements	
Label elements under CHIP:	
Hazard symbols:	Harmful.

Dangerous for the environment.



Risk phrases: R20/22: Harmful by inhalation and if swallowed.

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

## KARIS

**Page:** 2

Safety phrases: S13: Keep away from food, drink and animal feeding stuffs.

S23: Do not breathe spray.

S35: This material and its container must be disposed of in a safe way.

S38: In case of insufficient ventilation, wear suitable respiratory equipment.

S46: If swallowed, seek medical advice immediately and show this container or label.

S57: Use appropriate container to avoid environmental contamination.

## 2.3. Other hazards

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

## Section 3: Composition/information on ingredients

## 3.2. Mixtures

## Hazardous ingredients:

#### LAMBDA-CYHALOTHRIN (ISO)

EINECS	CAS	CHIP Classification	CLP Classification	Percent		
415-130-7 91465-08-6 T+: R26; T: R25; Xn: R21; N: Acute Tox. 2: H330; Acute Tox. 3: H301; R50/53 Acute Tox. 4: H312; Aquatic Acute 1: H400; Aquatic Chronic 1: H410						
KEROSINE - UNSPECIFIED - SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM.						
265-198-5	64742-94-5	Xn: R65; N: R51/53	Asp. Tox. 1: H304	5-10%		
LIGNOSULPHONIC ACID, SODIUM SALT, SULFOMETHYLATED						
-	68512-34-5	Xi: R36/37	-	1-5%		

#### Section 4: First aid measures

#### 4.1. Description of first aid measures

Skin contact:	Wash immediately with plenty of soap and water. Remove all contaminated clothes and
	footwear immediately unless stuck to skin.
Eye contact:	Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion:	Do not induce vomiting. Wash out mouth with water. Transfer to hospital as soon as
	possible.
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. If
	unconscious and breathing is OK, place in the recovery position. Consult a doctor.
4.2. Most important symptom	is and effects, both acute and delayed
Skin contact:	There may be irritation and redness at the site of contact. There may be
	tingling/numbness on exposed areas.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: Inhalation of vapours can lead to irritation of eyes, nose and respiratory tract.

#### KARIS

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: 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. Avoid heavy hose streams.

### 5.2. Special hazards arising from the substance or mixture

**Exposure hazards:** Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Combustion products of this material must be classed invariably as respiratory poison.

#### 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.

## Section 6: Accidental release measures

6.1. Personal precautions, pr	otective equipment and emergency procedures			
Personal precautions:	Do not attempt to take action without suitable protective clothing - see section 8 of SDS.			
	If outside do not approach from downwind. If outside keep bystanders upwind and away			
	from danger point. Mark out the contaminated area with signs and prevent access to			
	unauthorised personnel.			
6.2. Environmental precautio	ns			
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.			
6.4. Reference to other section	ons			
Reference to other sections:	Refer to section 8 of SDS. Refer to section 13 of SDS.			
ection 7: Handling and stor	age			
7.1. Precautions for safe handling				

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Smoking is forbidden.

KARIS

## 7.2. Conditions for safe storage, including any incompatibilities

 Storage conditions:
 Store in cool, well ventilated area. Keep away from sources of ignition. Keep container

 tightly closed. The floor of the storage room must be impermeable to prevent the escape
 of liquids. Opened containers must be resealed and kept upright to prevent leakage.

 Suitable packaging:
 Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

## Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

8.1. DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures:	Ensure there is sufficient ventilation of the area. The floor of the storage room must be
	impermeable to prevent the escape of liquids.
Respiratory protection:	Gas/vapour filter, type A: organic vapours (EN141). Self-contained breathing apparatus
	must be available in case of emergency.
Hand protection:	Impermeable gloves.
Eye protection:	Tightly fitting safety goggles. 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:	Miscible				
Viscosity:	150 mPa.s				
Viscosity test method:	Dynamic				
Boiling point/range°C:	>104	Flash point°C:	>100		
Relative density:	1.06	pH:	Approx. 5.5		

9.2. Other information

Other information: No data available.

## Page: 4

## KARIS

## Section 10: Stability and reactivity

## 10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

## 10.2. Chemical stability

Chemical stability: Stable at room temperature.

## 10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

## 10.4. Conditions to avoid

Conditions to avoid: Heat.

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

#### **Toxicity values:**

Route	Species	Test	Value	Units
ORAL	RAT	LD50	300 - 2000	mg/kg
DERMAL	RAT	LD50	>2000	mg/kg
VAPOURS	RAT	LC50	2.78	mg/l

## Hazardous ingredients:

### LAMBDA-CYHALOTHRIN (ISO)

IVN	RAT	LD50	1951	µg/kg
ORL	RAT	LD50	56	mg/kg
SKN	RAT	LD50	632	mg/kg

### KEROSINE - UNSPECIFIED - SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM.

ORL RAT	LDLO	5	ml/kg
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## Relevant effects for mixture:

Effect F	Route Bas	sis
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KARIS

Acute toxicity (harmful)		INH ING	Hazardous: calculated
Symptoms / routes of exposi	ıre		
Skin contact:	There may	/ be irritation and redn	ess at the site of contact. There may be
	tingling/numbness on exposed areas.		
Eye contact:	There may be irritation and redness. The eyes may water profusely.		
Ingestion:	There may be soreness and redness of the mouth and throat. Nausea and stomach		
	pain may	occur. There may be v	omiting.
Inhalation:	Inhalation of vapours can lead to irritation of eyes, nose and respiratory tract.		
Delayed / immediate effects:	Immediate	effects can be expect	ed after short-term exposure.

## Section 12: Ecological information

## 12.1. Toxicity

## **Ecotoxicity values:**

Species	Test	Value	Units
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	0.0151	mg/l
Daphnia magna	48H EC50	0.043	mg/l
GREEN ALGA (Selenastrum capricornutum)	96H ErC50	23.84	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 substance.

12.6. Other adverse effects

Other adverse effects: Very toxic to aquatic organisms.

## Section 13: Disposal considerations

## 13.1. Waste treatment methods

Disposal operations:	The listed waste code number, according to the European Waste Catalogue, is to be
	understood as a recommendation. A final decision must be made in agreement with the
	regional waste disposal company.
<b>Recovery operations:</b>	Not applicable.
Waste code number:	020108
Disposal of packaging:	Completely discharge containers. Do not reuse product container.

Page: 6

## KARIS

Page: 7

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

regulations regarding disposal.

## Section 14: Transport information

#### 14.1. UN number

UN number: UN3082

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(LAMBDA-CYHALOTHRIN (ISO))

## 14.3. Transport hazard class(es)

Transport class: 9

14.4. Packing group

Packing group: |||

14.5. Environmental hazards

Environmentally hazardous: Yes

Marine pollutant: No

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:** This product is a Seveso category/named substance in Annex I of Council Directive 96/82/EC.

## 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 3:
 H301: Toxic if swallowed.

H304: May be fatal if swallowed and enters airways.

## KARIS

H312: Harmful in contact with skin.H330: Fatal if inhaled.H410: Very toxic to aquatic life with long lasting effects.R20/22: Harmful by inhalation and if swallowed.R21: Harmful in contact with skin.R25: Toxic if swallowed.R26: Very toxic by inhalation.R36/37: Irritating to eyes and respiratory system.R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.R65: Harmful: may cause lung damage if swallowed.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.

Page: 8