

# Safety Data Sheet

## KARLSTEN DUAL BUG & INSECT DESTROYER+ SPIDER SPRAY



Safety Data Sheet dated 10/6/2020, version 1

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

#### 1.1. Product identifier

Trade name: **KARLSTEN DUAL BUG & INSECT DESTROYER+  
SPIDER SPRAY**

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

Recommended use:

Insecticide - Biocidal use

Ready-to-use

Uses advised against:

Do not use for purposes other than those stated in "Recommended uses"

#### 1.3. Details of the supplier of the safety data sheet

Company:

LODI UK

Pensnett Trading Estate 3rd Avenue

West Midlands

DY6 7FD KINGSWINFORD United Kingdom

Tel. 01384 404242

Competent person responsible for the safety data sheet:

fds@lodi.fr

#### 1.4. Emergency telephone number

European Emergency phone number : 112

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)



Warning, Aquatic Chronic 1, Very toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

#### 2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P273 Avoid release to the environment.

P391 Collect spillage.

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P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Contains

2-méthyl-2H-isothiazole-3-one: May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

#### 2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 2: Hazards identification

















### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not available

#### 3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
0.10%	Cypermethrin cis/trans +/- 40/60	CAS: 52315-07-8 EC: 257-842-9	 3.1/4/Inhal Acute Tox. 4 H332  3.1/4/Oral Acute Tox. 4 H302  3.8/3 STOT SE 3 H335  4.1/A1 Aquatic Acute 1 H400 M=1000.  4.1/C1 Aquatic Chronic 1 H410 M=1000.
0.01%	Chrysanthemum cinerariaefolium, extract from open and mature flowers of Tanacetum cinerariifolium obtained with supercritical CO2 (Redefined from Pyrethrins and Pyrethroids and Chrysanthemum cinerariaefolium, ext.)	CAS: 89997-63-7 EC: 289-699-3	 3.1/4/Inhal Acute Tox. 4 H332  3.1/4/Oral Acute Tox. 4 H302  4.1/A1 Aquatic Acute 1 H400 M=100.  4.1/C1 Aquatic Chronic 1 H410 M=100.
<1%	2-méthyl-2H-isothiazol e-3-one	CAS: 2682-20-4 EC: 220-239-6	 3.1/2/Inhal Acute Tox. 2 H330  3.1/3/Oral Acute Tox. 3 H301  3.2/1B Skin Corr. 1B H314  3.3/1 Eye Dam. 1 H318  3.4.2/1A Skin Sens. 1A H317  4.1/A1 Aquatic Acute 1 H400  4.1/C2 Aquatic Chronic 2

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			H411
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**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

Treatment:

None

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

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

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

**5.3. Advice for firefighters**

Use suitable breathing apparatus .

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

Move undamaged containers from immediate hazard area if it can be done safely.

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**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

**6.2. Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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Suitable material for taking up: absorbing material, organic, sand

### 6.3. Methods and material for containment and cleaning up

Rapidly recover the product. To do so, wear a mask and protective clothing.  
Wash with plenty of water.

### 6.4. Reference to other sections

See also section 8 and 13

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.  
Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
See also section 8 for recommended protective equipment.  
Advice on general occupational hygiene:  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.

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

Keep away from food, drink and feed.  
Incompatible materials:  
None in particular.  
Instructions as regards storage premises:  
Adequately ventilated premises.

### 7.3. Specific end use(s)

None in particular

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Chrysanthemum cinerariaefolium, extract - CAS: 89997-63-7  
EU - TWA(8h): 1 mg/m<sup>3</sup> - Notes: DIRECTIVE 2006/15/CE DE LA COMMISSION  
(Pyrethre CAS : 8003-34-7)  
DNEL Exposure Limit Values  
Not available  
PNEC Exposure Limit Values  
Cypermethrin cis/trans +/- 40/60 - CAS: 52315-07-8  
Target: Fresh Water - Value: 0.004 µg/L  
Target: 3 - Value: 1.63 mg/l  
Target: Soil - Value: 0.08 mg/kg  
Target: Freshwater sediments - Value: 0.05 mg/kg - Notes:: equilibrium  
partitioning method (koc of 575000)

### 8.2. Exposure controls

Eye protection:  
Not needed for normal use. Anyway, operate according good working practices.  
Protection for skin:  
No special precaution must be adopted for normal use.  
Protection for hands:  
Not needed for normal use.  
Wear gloves EN374 in case of projection.

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Respiratory protection:  
Not needed for normal use.

Thermal Hazards:  
None

Environmental exposure controls:  
None

Appropriate engineering controls:  
None

#### SECTION 9: Physical and chemical properties

##### 9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	liquide blanchâtre limpide	--	--
Odour:	Not available	--	--
Odour threshold:	Not available	--	--
pH:	5.4	--	--
Melting point / freezing point:	Not available	--	--
Initial boiling point and boiling range:	Not available	--	--
Flash point:	62°C<PE<93 ° C	--	--
Evaporation rate:	Not available	--	--
Solid/gas flammability:	Not available	--	--
Upper/lower flammability or explosive limits:	Not available	--	--
Vapour pressure:	Not available	--	--
Vapour density:	Not available	--	--
Relative density:	1.001	--	--
Solubility in water:	Not available	--	--
Solubility in oil:	Not available	--	--
Partition coefficient (n-octanol/water):	Not available	--	--
Auto-ignition temperature:	Not available	--	--
Decomposition temperature:	Not available	--	--
Viscosity:	Not available	--	--
Explosive properties:	Not available	--	--
Oxidizing properties:	Not available	--	--

##### 9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	Not available	--	--
Fat Solubility:	Not available	--	--
Conductivity:	Not available	--	--
Substance Groups relevant properties	Not available	--	--

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### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Stable under normal conditions

#### 10.2. Chemical stability

Stable under normal conditions

#### 10.3. Possibility of hazardous reactions

None

#### 10.4. Conditions to avoid

Stable under normal conditions.

#### 10.5. Incompatible materials

None in particular.

#### 10.6. Hazardous decomposition products

None.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Toxicological information of the product:

Not available

Toxicological information of the main substances found in the product:

Cypermethrin cis/trans +/- 40/60 - CAS: 52315-07-8

a) acute toxicity:

Test: LD50 - Route: oral - Species: Rat : = 500 mg/kg b.w - Source:  
Cypermethrin CAR - February 2017 - Notes: (groundnut oil)

Test: LD50 - Route: dermal - Species: Rat : > 2000 mg/kg b.w - Source:  
Cypermethrin CAR February 2017

Test: LC50 - Route: Inhalation - Species: Rat : = 3281 g/m<sup>3</sup> - Source:  
Cypermethrin CAR - February 2017 - Notes: (males)

Test: NOAEL - Route: oral - Species: Dog = 12.5 mg/kg b.w/d - Source:  
Cypermethrin CAR -February 2017

b) skin corrosion/irritation:

Test: Skin Irritant - Route: dermal Slightly irritant - Source: Cypermethrin CAR -  
February 2017 - Notes: Ne requiert pas de classification

c) serious eye damage/irritation:

Test: Eye Irritant - Route: ocular Slightly irritant - Source: Cypermethrin CAR -  
February 2017 - Notes: Ne requiert pas de classification

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: dermal Non skin sensitizer - Source:  
Cypermethrin CAR - February 2017 - Notes: LLNA in mouse

f) carcinogenicity:

Test: NOAEL - Route: oral - Species: Rat : = 5 mg/kg b.w/d - Source:  
Cypermethrin CAR -February 2017

g) reproductive toxicity:

Test: NOAEL - Route: oral - Species: Rat : = 10 mg/kg b.w/d - Source:  
Cypermethrin CAR -February 2017 - Notes: NOAEL offspring

Chrysanthemum cinerariaefolium, extract - CAS: 89997-63-7

a) acute toxicity:

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Test: LD50 - Route: oral - Species: Rat : = 1030 mg/kg b.w/d - Notes: Nominal 57% Chrysanthemum cinerariaefolium, ext

Test: LD50 - Route: dermal - Species: Rabbit : > 2000 mg/kg b.w - Notes: nominal 57% Chrysanthemum cinerariaefolium, ext.

Test: LC50 - Route: Inhalation - Species: Rat : > 2.3 mg/L - Duration: 4h - Notes: nominal 57% Chrysanthemum cinerariaefolium, ext.

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: dermal Non skin sensitizer - Notes: nominal 57% Chrysanthemum cinerariaefolium, ext.

f) carcinogenicity:

Test: NOAEL = 4.4 mg/kg b.w/d - Notes: nominal 57% Chrysanthemum cinerariaefolium, ext.

g) reproductive toxicity:

Test: NOAEL = 360 mg/kg b.w/d - Notes: nominal 57% Chrysanthemum cinerariaefolium, ext.

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

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## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Cypermethrin cis/trans +/- 40/60 - CAS: 52315-07-8

a) Aquatic acute toxicity:

Endpoint: LC50 *Oncorhynchus mykiss* = 2.83 µg/L - Duration h: 96

Endpoint: NOEC Fish = 0.463 µg/L - Notes: 28 days (early life stage)

Endpoint: EC50 *Daphnia magna* = 4.71 µg/L - Duration h: 48

Endpoint: ErC50 *Selenastrum capricornutum* > 33 µg/L - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: EC50 *Daphnia magna* = 0.35 µg/L - Notes: 21 days

Endpoint: NOEC *Daphnia magna* = 0.04 µg/L - Notes: 21 days

Endpoint: NOEC *Selenastrum capricornutum* > 33 µg/L - Duration h: 96

c) Bacteria toxicity:

Endpoint: EC50 microorganisms = 163 mg/L - Duration h: 3

Chrysanthemum cinerariaefolium, extract - CAS: 89997-63-7

a) Aquatic acute toxicity:

Endpoint: LC50 Rainbow Trout = 5.2 µg/L - Duration h: 96

Endpoint: EC50 *Daphnia magna* = 12 µg/L - Duration h: 48 - Notes: LOEC value of 2.0 µg.l-1 were determined (21 d study)

b) Aquatic chronic toxicity:

Endpoint: NOEC Fathead minnow = 1.9 µg/L - Notes: LOEC value of 3.0 µg.l-1 (35d study)

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Endpoint: NOEC Daphnia magna = 0.86 µg/L - Notes: LOEC value of 2.0 µg.l-1 were determined

c) Bacteria toxicity:

Endpoint: NOEC Activated sludge = 0.23 µg/L - Duration h: 3

### 12.2. Persistence and degradability

Chrysanthemum cinerariaefolium, extract from open and mature flowers of Tanacetum cinerariifolium obtained with supercritical CO<sub>2</sub> (Redefined from Pyrethrins and Pyrethroids and Chrysanthemum cinerariaefolium, ext.) - CAS: 89997-63-7

Biodegradability: Readily biodegradable - Notes: in presence of UV light

### 12.3. Bioaccumulative potential

Not available

### 12.4. Mobility in soil

Not available

### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

### 12.6. Other adverse effects

None

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

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## SECTION 14: Transport information

### 14.1. UN number

ADR-UN number: 3082

### 14.2. UN proper shipping name

ADR-Shipping Name: UN 3082 Environmentally hazardous substance liquid, nos (cypermethrin, chrysanthemum cinerariaefolium extract), 9, III (E)

### 14.3. Transport hazard class(es)

ADR-Class: 9

### 14.4. Packing group

ADR-Packing Group: III

### 14.5. Environmental hazards

Not available

### 14.6. Special precautions for user

Not available

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

Not available



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### SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) 2015/830  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)  
Regulation (EU) n. 2016/918 (ATP 8 CLP)  
Regulation (EU) n. 2016/1179 (ATP 9 CLP)  
Regulation (EU) n. 2017/776 (ATP 10 CLP)  
Regulation (EU) n. 2018/699 (ATP 11 CLP)

Restrictions related to the product or the substances contained according to Annex XVII  
Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)  
Regulation (EC) nr 648/2004 (detergents).  
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1  
Product belongs to category: E1

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

### SECTION 16: Other information

Full text of phrases referred to in Section 3:

H332 Harmful if inhaled.  
H302 Harmful if swallowed.  
H335 May cause respiratory irritation.  
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.  
H330 Fatal if inhaled.  
H301 Toxic if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.

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H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Hazard class and hazard category	Code	Description
Acute Tox. 2	3.1/2/Inhal	Acute toxicity (inhalation), Category 2
Acute Tox. 3	3.1/3/Oral	Acute toxicity (oral), Category 3
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Skin Sens. 1A	3.4.2/1A	Skin Sensitisation, Category 1A
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Aquatic Chronic 1, H410	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
CSR:	Chemical safety report
DNEL:	Derived No Effect Level.
EC50:	
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.

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IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
N.A.:	Not available
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
UN:	United Nations
WGK:	German Water Hazard Class.