LodiUK

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Revision: 01
Version: 02
Replaces: SDS dated 10/06/2020

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

1.1 Product identifier:

Trade name: **INSECTO SUPER BUG DESTROYER +**
Product code: **-**

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

Relevant identified uses of the substance or mixture:

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

Lodi UK Ltd Bays 3 & 4, Building 69 Third Avenue Pensnett Trading Estate Kingswinford DY6 7FD
Tel: +44 01384 404242 (office hours only)

Emergency tel: +44 01384 404242 .(office hours only)

1.4 Emergency telephone number

Emergency information services / official advisory body:

Country	Organisation/ Company	Address	Emergency number
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111
United Kingdom	National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital	Penarth CF64 2XX Cardiff	0344 892 0111
United Kingdom	National Poisons Information Service Edinburgh Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA Edinburgh	0344 892 0111
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre, Wolfson Unit	Claremont Place Newcastle-upon-Tyne NE1 4LP Newcastle	0344 892 0111
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

Aquatic Chronic Toxicity Category 1 H410 Very toxic to aquatic life with long lasting effects

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)

Hazard pictograms:

GHS09

Signal word: Warning

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

Precautionary statements: P273 Avoid release to the environment.
P391 Collect spillage.
P501 Dispose of contents/container in accordance with applicable regulations.

EUH208 Contains: 2-methylisothiazol-3(2H)-one. May produce an allergic reaction.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

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

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

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

Substance:	**EC/CAS numbers:**	**EU Index No./REACh Registration Number:**	**CLP Classification:**	**Percent:**
2-methylisothiazol-3(2H)-one	220-239-6/ 2682-20-4	613-326-00-9/-	Acute Tox. 2 (Inhal.); H330 Acute Tox. 3 (Dermal); H311 Acute Tox. 3 (Oral); H301 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 **Specific Concentration Limits, M-factors and ATEs if available:** Skin Sens. 1A; H317: C ≥ 0,0015 % M = 10 M = 1	< 1

cypermethrin cis/trans +/-40/60; (RS)-α-cyano-3-phenoxybenzyl (1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate	257-842-9/ 52315-07-8	607-421-00-4/	Acute Tox. 4 (inhal.); H332 Acute Tox. 4 (Oral); H302 STOT SE 3; H335 STOT RE 2; H373 (nervous system) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 **Specific Concentration Limits, M-factors and ATEs if available:** oral; ATE = 500 mg/kg bw inhalation; ATE = 3,3 mg/l (dusts or mists) M = 100000 M = 100000	0.10
Chrysanthemum cinerariaefolium, extract from open and mature flowers of Tanacetum cinerariifolium obtained with supercritical CO2 (Redefined from Pyrethrins and Pyrethroids and Chrysanthemum cinerariaefolium, ext.)	289-699-3/ 89997-63-7	-/-	Acute Tox. 4 (inhal.); H332 Acute Tox. 4 (Oral); H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0.01

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

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: Dermal exposure, wash skin with water and then with water and soap. Seek medical attention if ill effect or irritation develops.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
In case of skin or eye contact, immediately and thoroughly wash with water. Seek medical attention if ill effect or irritation develops

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.
Immediately consult a physician and show the label. Do not induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest. Assure fresh air breathing
Seek medical attention if breathing difficulties appear and persist.

4.2 Most important symptoms and effects, both acute and delayed

None

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/CO_2
Unsuitable extinguishing media None known

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.

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.
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
For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

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:
Contamined 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)
Insecticide - Biocidal use

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Chrysanthemum cinerariaefolium, extract - CAS: 89997-63-7
Pyrethre CAS : 8003-34-7:
EU - TWA(8h): 1 mg/m^3 Directive (EU) 2017/164 of 31 January 2017

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. Operate according good working practices.

Protection for skin:
No special precaution need be adopted for normal use.

Protection for hands:
Not needed for normal use.
Wear gloves EN374 in case of projection.

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:	Whitish liquid	--	--
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	Not available	--	--
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	--	--

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 reported.

10.6 Hazardous decomposition products
None.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
(a) acute toxicity:
Product:
Not classified; no information.

Ingredient:
CYPERMETHRIN:
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/m3 - 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

CHRYSANTHEMUM CINERARIAEFOLIUM, EXTRACT
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.

(b) skin corrosion/irritation:
Product:
Not classified; no information.
Ingredient:
Test: Skin Irritant - Route: dermal Slightly irritant - Source: Cypermethrin CAR - February 2017 - Notes: Ne requiert pas de classification

(c) serious eye damage/irritation:
Product:
Not classified; no information.

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

(d) respiratory or skin sensitisation:
Product:
Not classified; no information.

Ingredient:
Test: Skin Sensitization - Route: dermal Non skin sensitizer - Source: Cypermethrin CAR - February 2017 - Notes: LLNA in mouse (e) germ cell mutagenicity:

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

(f) carcinogenicity:
Product:
Not classified; no information.

Ingredient:
Test: NOAEL - Route: oral - Species: Rat : = 5 mg/kg b.w/d - Source: Cypermethrin CAR -February 2017
CHRYSANTHEMUM CINERARIAEFOLIUM, EXTRACT
Test: NOAEL = 4.4 mg/kg b.w/d - Notes: nominal 57% Chrysanthemum cinerariaefolium, ext.

(g) reproductive toxicity:
Product:
Not classified; no information.

Ingredient:
Test: NOAEL - Route: oral - Species: Rat : = 10 mg/kg b.w/d - Source: Cypermethrin CAR -February 2017 - Notes: NOAEL offspring
CHRYSANTHEMUM CINERARIAEFOLIUM, EXTRACT
Test: NOAEL = 360 mg/kg b.w/d - Notes: nominal 57% Chrysanthemum cinerariaefolium, ext.

(h) STOT-single exposure:

Product:
Not classified; no information.

Ingredient:

(i) STOT-repeated exposure:
Product:
Not classified; no information.

Ingredient:

(j) aspiration hazard:
Product:
Not classified; no information.

11.2 Information on other hazards:

Endocrine disrupting properties: None

Other information: None

SECTION 12: Ecological information

12.1. Toxicity

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

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)
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 CO2 (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

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.

SECTION 14: Transport information

14.1. UN number
UN3082

14.2. UN proper shipping name
UN 3082 Environmentally hazardous substance liquid, nos (cypermethrin, chrysanthemum cinerariaefolium extract), 9, III (E)

14.3. Transport hazard class(es)
9

14.4. 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

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU Regulations
REGULATION (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

REGULATION (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

COMMISSION REGULATION (EU) 2015/830 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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)

National Regulations/legislation:
Refer to applicable national classification, packaging and labelling legislation.

15.2 Chemical safety assessment
A chemical safety assessment is not provided for the mixture.

SECTION 16: Other information

(a) Reasons for revision:
Update to latest version of REACh.
Addition of ATEs and M-factors for ingredients to reflect latest Adaptions to Technical Progress.

(b) Abbreviations and acronyms:

Acute Tox. 3 (Dermal):	Acute Toxicity (Dermal) Category 3
Acute Tox. 2/4 (Inhal.):	Acute Toxicity (Inhalation) Category 2/4
Acute Tox. 3/4 (Oral):	Acute Toxicity (Oral) Category 3/4
Aquatic Acute 1:	Aquatic Toxicity Acute Category 1
Aquatic Chronic 1:	Aquatic Toxicity Chronic Category 1
ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labelling, Packaging.
CSR:	Chemical safety report
DNEL:	Derived No Effect Level.
EC50:	Effective Concentration 50%
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
Eye Dam. 1:	Eye Damage Category 1
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
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.
M-Factor:	Multiplication factor [for aquatic toxicity values].
N.A.:	Not available
PNEC:	Predicted No Effect Concentration.
PBT:	Persistent, Bioaccumulative and Toxic substance
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
Skin Corr. 1:	Skin Corrosion Category 1
Skin Sens. 1A:	Skin Sensitivity Category 1A
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
UN:	United Nations
vPvB	very persistent and very bioaccumulative
WGK:	German Water Hazard Class.

(c) Key literature references and sources for data:
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

(d) Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Aquatic Chronic 1, H410	Calculation method

(e) Relevant H-statements and precautionary statements not written out in full under Sections 2 to 15:

H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H330 Fatal if inhaled.
H332 Harmful if inhaled.
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.

(f) Training advice:

Employee instruction/training in handling hazardous materials is required.

(g) Further information:

This safety data sheet is prepared in accordance with Commission Regulation (EC) No 2015/830.
General occupational hygiene training recommended.

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