

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Product Name: Garden Caterpillar Spray
Product Number(s): P2124 (125 ml)

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

Controls caterpillars, flea beetle and greenfly on vegetables

1.3 Details of the supplier of the safety data sheet

Hygeia Chemicals Limited, Carrowmoneash, Oranmore, Co. Galway
Tel: 091-794722 Fax: 091-794738 email: services@hygeia.ie

1.4 Emergency telephone number

National Poisons Information Centre (Tel: 01-8379964) (Fax: 01-8368476)

Section 2: Hazards Identification**2.1 Classification according to Regulation (EC) 1272/2008 [EU-GHS/CLP]**

Aquatic Acute 1: H400
Aquatic Chronic 1: H410

2.2 Label Elements

Labelling according to Regulation (EC) No 1272/2008 (CLP):



Hazard pictogram: GHS09
Signal words: Warning
Hazard statements: 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
Precautionary statements: P273: Avoid release to the environment
P391: Collect spillage
P501: Dispose of contents/container to a licensed waste disposal contractor or collection site except for triple rinsed containers which can be disposed of as non-hazardous waste

2.3 Other hazards

No data available

Section 3: Composition/information on ingredients**3.1 Substances**

Not available

3.2 Mixtures

| Name | No. | Classification | % Wt. |
|--------------|---|--|--------------|
| Cypermethrin | CAS No: 52315-07-8 EINECS: 257-842-9 | Acute Tox. 4: H332; Acute Tox. 4: H302; STOT SE3: H335; Aquatic Acute 1: H400; Aquatic Chronic 1: H410 | 0.83 - 1.03% |

Section 4: First Aid Measures

4.1 Description of First Aid Measures

Eye Contact: In case of eye contact, immediately rinse with clean water for 10-15 minutes. Retract eyelids often. Check for and remove any contact lenses. Obtain medical attention if pain, blinking or redness persist

Skin Contact: Remove contaminated clothing immediately. If skin contamination occurs wash immediately with plenty of clean, gently flowing water for at least 10 minutes. Repeat skin decontamination process until all signs of chemicals have gone. Seek medical attention if ill effect or irritation develops

Ingestion: If ingestion is suspected, do not induce vomiting. If conscious, drink plenty of water. Obtain medical attention immediately (show this Safety Data Sheet)

Inhalation: Assure fresh air breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention if breathing difficulty persists

4.2 Most important symptoms and effects, both acute and delayed

No data available

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: Foam, dry extinguishing powder, Carbon Dioxide (CO₂), water fog
Unsuitable Extinguishing Media: High power water jet

5.2 Special hazards arising from the substance or mixture

Fire hazard: Non-flammable

5.3 Advice for firefighters

No naked lights. No smoking. Evacuate and limit access to the area. Use water spray jet to protect personnel and to cool endangered containers. Wear full chemical protective clothing. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Collect contaminated fire extinguishing water separately. Do not allow product enter drains or surface water

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

When leaks or spills occur, only properly protected personnel should remain in the area. Wear suitable protective clothing, gloves and eye or face protection. In case of insufficient ventilation, wear suitable respiratory equipment. Evacuate area. Provide adequate ventilation to minimize dust and/or vapour concentrations. Call in an expert. Eliminate every possible source of ignition

- 6.2 Environmental precautions**
Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters
- 6.3 Methods and material for containment and cleaning up**
For Containment: Prevent spreading in sewers. Impound and recover large spills by mixing it with inert granular solids
Methods for Cleaning up: Collect spills and put into appropriate container
Other Information: Special danger of slipping by leaking/spilling product
- 6.4 Reference to other sections**
Refer to Sections 8 and 13 of SDS

Section 7: Handling and Storage

- 7.1 Precautions for safe handling**
When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety procedures. Ensure prompt removal from eyes, skin and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work
- 7.2 Conditions for safe storage, including any incompatibilities**
Keep containers tightly closed in a dry, cool and well-ventilated place to which children do not have access. Keep away from food, drink and animal feedingstuffs. Protect against direct sunlight. Avoid strong acids, strong bases and oxidizing agents. Protect product from frost. Keep only in original container. Keep locked up
- 7.3 Specific end use(s)**
No data available

Section 8: Exposure Controls/Personal Protection

- 8.1 Control Parameters**
No data available
- 8.2 Exposure Controls**
- | | |
|---|--|
| Engineering Control Measures: | The usual precautionary measures for handling chemicals should be observed |
| Hygiene Measures: | When using do not eat, drink or smoke. Shower or bathe at the end of working |
| Hand Protection: | Wear suitable gloves resistant to chemical penetration. NBR (Nitrile rubber). For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves |
| Eye Protection: | Face shield. Chemical goggles or safety glasses |
| Skin and Body Protection: | Skin protection appropriate to the conditions of use should be provided |
| Respiratory Protection: | If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn |
| Environmental Exposure Controls: | Notify authorities if product enters sewers or public waters |
| Other Information: | Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure |

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

| | |
|----------------------------------|---------------------|
| Appearance: | Light yellow liquid |
| Odour: | Low |
| pH: | 5.5 |
| Specific Gravity: | 1.043 g/ml |
| Boiling Point: | No data available |
| Melting Point/Range: | No data available |
| Decomposition Temp.: | No data available |
| Flash Point: | >79°C |
| Auto Ignition Temp.: | 399°C (± 6°C) |
| Flammability: | No data available |
| Explosive Properties: | No data available |
| Oxidising Properties: | No data available |
| Vapour Pressure: | No data available |
| Solubility (Water): | No data available |
| Solubility (Fat Solvent): | No data available |
| Partition Coefficient: | No data available |
| Viscosity: | 64 mPa.s (40°C) |

9.2 Other information

No data available

Section 10: Stability and Reactivity

10.1 Reactivity

When exposed to heat, may decompose liberating hazardous gases

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

None under normal conditions. Refer to Section 10.1 on Reactivity

10.4 Conditions to avoid

Protect against direct sunlight. Keep away from heat/sparks/open flames/hot surfaces. No smoking

10.5 Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents

10.6 Hazardous decomposition products

When heated to decomposition, emits dangerous fumes. Carbon dioxide (CO₂). Carbon Monoxide. Nitrogen oxides (NO_x)

Section 11: Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity:

| Cypermethrin 10 g/l ME | |
|--|-------------|
| LD ₅₀ Oral Rat | >2000 mg/kg |
| LD ₅₀ Dermal Rat | >4000 mg/kg |
| LC ₅₀ Inhalation Rat (mg/l) | >5 mg/l/4h |

| Cypermethrin cis/trans ± 40/60 (52315-07-8) | |
|--|--------------|
| LD ₅₀ Oral Rat | 500 mg/kg |
| LD ₅₀ Dermal Rat | >2000 mg/kg |
| LC ₅₀ Inhalation Rat (mg/l) | 3.28 mg/l/4h |

| Cypermethrin cis/trans ± 40/60 (52315-07-8) | |
|--|--------------------|
| NOAEL (chronic, oral, animal/male, 2 years) | 5 mg/kg bodyweight |

| | |
|--|----------------|
| Eyes: | Not classified |
| Skin: | Not classified |
| Sensitisation: | Not classified |
| Mutagenic/Carcinogenic/ | Not classified |
| Teratogenicity/Reproductive/STOT: | |
| Routes of Exposure: | Not classified |

Section 12: Ecological Information

12.1 Toxicity

| Cypermethrin 10 g/l ME | | | |
|-------------------------------|-------------------|-------|-------|
| Species | Test | Value | Units |
| Fish | LC ₅₀ | 0.189 | mg/l |
| Daphnia | EC ₅₀ | 0.300 | mg/l |
| Algae | ErC ₅₀ | 9407 | mg/l |

| Cypermethrin cis/trans ± 40/60 (52315-07-8) | | | |
|--|-------------------|---------|----------|
| Species | Test | Value | Units |
| Fish 1 (<i>Salmo gairdneri</i>) | LC ₅₀ | 0.0028 | mg/l/96h |
| Daphnia 1 (<i>Daphnia magna</i>) | EC ₅₀ | 0.0003 | mg/l/48h |
| Algae (<i>Selenastrum capricornutum</i>) | ErC ₅₀ | >0.1 | mg/l/96h |
| (Chronic) (<i>Pimephales promelas</i>) | NOEC | 0.00003 | mg/l/34d |

12.2 Persistence & Degradability

Not readily biodegradable

12.3 Bioaccumulative Potential

Cypermethrin cis/trans ± 40/60 (52315-07-8)

BCF Fish 1: 1204 mg/l (*Salmo gairdneri*)

Log Pow: 5.3 - 5.6 (25°C)

12.4 Mobility in Soil

Cypermethrin cis/trans ± 40/60 (52315-07-8)

Surface Tension: 35.9 mN/m (40°C)

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other Adverse Effects

No data available

Section 13: Disposal Considerations**13.1 Waste treatment methods**

Product Disposal: Dispose of according to local and national regulations

Container Disposal: Triple rinse containers with water and dispose of according to local and national regulations

Section 14: Transport Information

In accordance with ADR/RID/IMDG/IATA/ADN

14.1 UN number

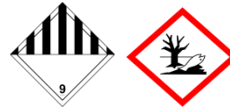
| | | |
|---------------|---|------|
| UN-No. (ADR) | : | 3082 |
| UN-No. (IMDG) | : | 3082 |
| UN-No. (IATA) | : | 3082 |
| UN-No. (ADN) | : | 3082 |
| UN-No. (RID) | : | 3082 |

14.2 UN proper shipping name

| | | |
|-----------------------------|---|--|
| Proper Shipping Name (ADR) | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |
| Proper Shipping Name (IMDG) | : | Not applicable |
| Proper Shipping Name (IATA) | : | Not applicable |
| Proper Shipping Name (ADN) | : | Not applicable |
| Proper Shipping Name (RID) | : | Not applicable |

14.3 Transport hazard class(es)**ADR**

| | | |
|----------------------------------|---|---|
| Transport hazard class(es) (ADR) | : | 9 |
| Hazard labels (ADR) | : | 9 |

**IMDG**

| | | |
|-----------------------------------|---|---|
| Transport hazard class(es) (IMDG) | : | 9 |
|-----------------------------------|---|---|

**IATA**

| | | |
|----------------------------|---|---|
| Transport hazard class(es) | : | 9 |
|----------------------------|---|---|

**ADN**

| | | |
|----------------------------|---|---|
| Transport hazard class(es) | : | 9 |
|----------------------------|---|---|



RID

Transport hazard class(es) (RID) : 9
 Danger labels (RID) : 9

**14.4 Packing group**

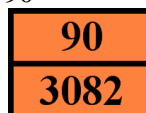
Packing group (ADR) : III
 Packing group (IMDG) : Not applicable
 Packing group (IATA) : Not applicable
 Packing group (ADN) : Not applicable
 Packing group (RID) : Not applicable

14.5 Environmental hazards

Dangerous for the environment : Yes
 Marine pollutant : Yes
 Other information : No supplementary information available

14.6 Special precautions for user**14.6.1 Overland transport**

Classification code (ADR) : M6
 Special provision (ADR) : 274, 335, 601
 Limited quantities (ADR) : 5L
 Excepted quantities (ADR) : E1
 Vehicle for tank carriage : AT
 Transport category (ADR) : 3
 Hazard identification number (Kemler No.): 90



Orange plates :
 Tunnel restriction code : E

14.6.2 Transport by sea**14.6.3 Air transport**

PCA Excepted quantities (IATA) : E1
 PCA Limited quantities (IATA) : Y964
 PCA limited quantity max net quantity (IATA) : 30kgG
 PCA packing instructions (IATA) : 964
 PCA max net quantity (IATA) : 450L
 CAO packing instructions (IATA) : 964
 CAO max net quantity (IATA) : 450L

14.6.4 Inland waterway transport

Not subjected to ADN : No

14.6.5 Rail transport

Classification code (RID) : M6
 Carriage prohibited (RID) : No

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

Not applicable

Section 15: Regulatory Information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

No REACH Annex XVII restrictions
Contains no REACH candidate substance

15.2 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**Text of Phrases mentioned in Sections 2 and 3:**

| | |
|---------------|--|
| H302 | Harmful if swallowed |
| H332 | Harmful if inhaled |
| H335 | May cause respiratory irritation |
| H400 | Very toxic to aquatic life |
| 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 |

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 guidance for safe handling, use, processing, storage, transportation, disposal, release and is not to be considered a warranty of 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