

SAFETY DATA SHEET

Date of Issue: 26 Oct 2015

Revision: December 2020

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier **PY BUG KILLER CONCENTRATE**

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

1.2.1. Relevant identified uses

Insecticide

1.3. Details of the supplier of the safety data sheet

Vitax Ltd, Owen St, Coalville, Leics LE67 3DE

Tel: +44 (0)1530 510060 E mail: info@vitax.co.uk

http://www.vitax.co.uk

1.4. Emergency telephone number

Emergency number: +44 (0)1530 510060

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aquatic Acute 1 H400

Aquatic Chronic 1 H410

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]



Hazard pictograms (CLP):

GHS09

CLP Signal word:

Warning

Hazard statements (CLP):

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP):

P102 - Keep out of reach of children

P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

P280 - Wear eye protection, protective clothing, protective gloves

P391 - Collect spillage

P501 - Dispose of contents/container to National regulations

EUH phrases:

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

PPP safety precautions:

SP 1 - Do not contaminate water with the product or its container

SPe8- Dangerous to bees./To protect bees and other pollinating insects do not apply to crop plants when in flower./Do not use where bees are actively foraging./ Do not apply when flowering weeds are present./ Use early in the morning and late in the evening..

2.3. Other hazards

No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Chemical Name	CAS-No./ EINECS-No.	Annex Index or REACH number	Symbol(s) and Phrases	Precautionary Statements:	Concentration [%]
cypermethrin Cis/trans +/- 40/60	52315-07-8 257-842-9	N/A	Acute Tox. 4 - H302, 332 STOT SE 3, H335 Aquatic 1 - H400, H410 M factor (Acute) = 1000 M factor (Chronic) = 1000		0.005%

Full text of R- and H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

First-aid measures general:

inhalation:

If medical advice is needed, have product container or label at hand.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. In

	case of irregular breathing or respiratory arrest provide artificial respiration. In all cases of doubt, or when symptoms persist, seek medical advice.
skin contact:	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.
eye contact:	Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
ingestion:	If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Immediately get medical attention.

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

No additional information 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

Precautionary measures fire: No naked lights. No smoking.

Firefighting instructions: Evacuate and limit access. Use water spray jet to protect personnel and to cool endangered containers.

Protection during firefighting: Wear full chemical protective clothing. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Other information: Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

General measures: When leaks or spills occur, only properly protected personnel should remain in the area.

6.1.1. For non-emergency personnel

Protective equipment: Wear suitable protective clothing, gloves and eye or face protection. In case of insufficient ventilation, wear suitable respiratory equipment.

Emergency procedures: Evacuate area. Provide adequate ventilation to minimize dust and/or vapour concentrations. Call in an expert. Eliminate every possible source of ignition.

6.1.2. For emergency responders

Protective equipment: Wear a self-contained breathing apparatus and chemical protective clothing.

6.2. Environmental precautions
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point. 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 spill by mixing it with inert granular solids.

Methods for cleaning up: Collect spills and put it into appropriated container.

Other information: Special danger of slipping by leaking/spilling product.

6.4. Reference to other sections Exposure controls/personal protection. Disposal considerations.

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Precautions for safe handling: Handle in accordance with good industrial hygiene and safety procedures. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not allow to enter into surface water or drains.

Handling temperature: at room temperature

Hygiene measures: Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. 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

SAFETY DATA SHEET

Date of Issue: 26 Oct 2015

Revision: December 2020

Technical measures:	Ground well. Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
Storage conditions:	Protect against direct sunlight.
Incompatible products:	Strong acid. Strong bases. Oxidizing agents, strong.
Maximum storage period:	2 year(s)
Storage temperature:	> 0 °C Protect from freezing
Storage area:	Keep container tightly closed in a cool, well-ventilated place. Provide for retaining containers, eg. floor pan without outflow.
Packaging materials:	Keep only in the original container. Keep locked up.
7.3. Specific end use(s)	No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters	No additional information available
8.2. Exposure controls	
Personal protective equipment:	Gloves. Gas mask. Safety glasses.
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

Physical state:	Liquid
Colour:	light yellow.
Odour:	Low.
Odour threshold:	No data available
pH:	5,5
Relative evaporation rate (butylacetate=1):	No data available
Melting point:	No data available
Freezing point:	No data available
Boiling point:	No data available
Flash point:	> 79 °C
Self ignition temperature:	399 °C (+/- 6°C)
Decomposition temperature:	No data available
Flammability (solid, gas):	No data available
Vapour pressure:	No data available
Relative vapour density at 20 °C :	No data available
Relative density:	No data available
Density:	1,043 g/ml
Solubility:	No data available
Log Pow:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	64 mPa.s (40°C)
Explosive properties:	No data available
Oxidising properties:	No data available
Explosive limits:	No data available

9.2. Other information No additional information 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 acid. 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 : Not classified

Py Bug Killer concentrate

LD50 oral rat > 2000 mg/kg
LD50 dermal rat > 4000 mg/kg
LC50 inhalation rat (mg/l) > 5 mg/l/4h

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

LD50 oral rat 500 mg/kg
LD50 dermal rat > 2000 mg/kg
LC50 inhalation rat (mg/l) 3,28 mg/l/4h
Skin corrosion/irritation: Not classified, pH: 5,5
Serious eye damage/irritation: Not classified, pH: 5,5
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified

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

NOAEL (chronic, oral, animal/male, 2 years) 5 mg/kg bodyweight
Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): Not classified
Specific target organ toxicity (repeated exposure): Not classified
Aspiration hazard: Not classified

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity****Py Bug Killer concentrate**

LC50 fishes 1 0,189 mg/l
EC50 Daphnia 1 0,3 mg/l
ErC50 (algae) 9407 mg/l

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

LC50 fishes 1 0,0028 mg/l (96h; Salmo gairdneri)
EC50 Daphnia 1 0,0003 mg/l (48h; Daphnia magna)
ErC50 (algae) > 0,1 mg/l (96h; Selenastrum capricornutum)
NOEC (chronic) 0,00003 mg/l (34d; Pimephales promelas)

12.2. Persistence and degradability**Cypermethrin cis/trans +/- 40/60 (52315-07-8)**

Persistence and 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**Py Bug Killer concentrate**

Surface tension 35,9 mN/m (40°C)

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Regional legislation (waste):

Disposal must be done according to official regulations.

Waste treatment methods:

Dispose of this material and its container to hazardous or special waste collection point.

Additional information:

Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads). Notify authorities if product enters sewers or public waters.

SECTION 14: TRANSPORT INFORMATION

General

This product is packed in accordance with the Limited Quantity Provisions of ADR and IMDG. These provisions allow transport to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Materials not so packed and labelled must show the following.

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

14.1. UN number

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

14.2. UN proper shipping name

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Transport document description:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (cypermethrin), 9, III, (E)

14.3. Transport hazard class(es)

Class (UN):	9
Classification code (UN):	M6
Class (IATA):	9
Class (IMDG):	9
Class (ADN):	9
Hazard labels (UN):	9



14.4. Packing group

Packing group (UN):	III
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14.5. Environmental hazards

Dangerous for the environment:	Yes
Marine pollutant:	Yes



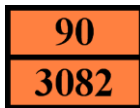
Other information:

No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.):	90
Classification code (UN):	M6



Orange plates:

Special provision (ADR):	274, 335, 601
Transport category (ADR):	3
Tunnel restriction code:	E
Limited quantities (ADR):	5L
Excepted quantities (ADR):	E1

14.6.2. Transport by sea

EmS-No. (Fire):	F-A
EmS-No. (Spillage):	S-F

14.6.3. Air transport

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

14.6.4. Inland waterway transport

No additional information available

SAFETY DATA SHEET

Date of Issue: 26 Oct 2015

Revision: December 2020

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Contains no REACH candidate substance

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: OTHER INFORMATION

Reason for revision:

Replaces version dated 26 October 2015. Section 1.3 updated.

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Inhalation) Acute toxicity (inhal.), Category 4

Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4

Aquatic Acute 1 Hazardous to the aquatic environment — Acute Hazard, Category 1

Aquatic Chronic 1 Hazardous to the aquatic environment — Chronic Hazard, Category 1

STOT SE 3 Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

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

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.