

PROCLAIM FIT UV

Version 3 - This version replaces all previous versions.

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

1.1 Product identifier

Product name : PROCLAIM FIT UV

Design code : A18922H

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

Use : Insecticide

1.3 Details of the supplier of the safety data sheet

Company : Syngenta Crop Protection AG
Postfach
CH-4002 Basel
Switzerland

Telephone : +41 61 323 11 11

Telefax : +41 61 323 12 12

E-mail address : sds.ch@syngenta.com

1.4 Emergency telephone number

Emergency telephone number : +44 1484 538444

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008

Specific target organ toxicity - repeated exposure	Category 2	H373
Acute aquatic toxicity	Category 1	H400
Chronic aquatic toxicity	Category 1	H410
Specific target organ toxicity - single exposure	Category 2	H371
Acute toxicity (Oral)	Category 4	H302

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xn, Harmful

N, Dangerous for the environment

R22: Harmful if swallowed.

R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R68/20/21/22: Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

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

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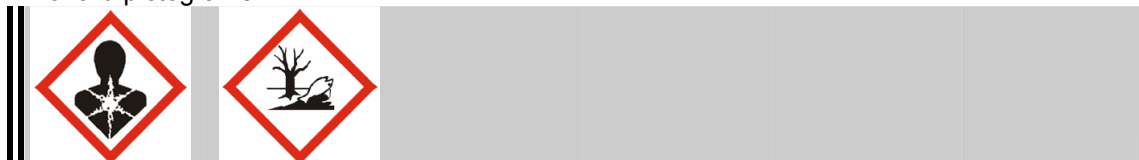
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2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008

Hazard pictograms



Signal word	:	Warning	
Hazard statements	:	H302 H371 H373 H410	Harmful if swallowed. May cause damage to the nervous system. May cause damage to the nervous system through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	P102 P260 P270 P273 P309 + P311 P391 P501	Keep out of reach of children. Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. Do not eat, drink or smoke when using this product. Avoid release to the environment. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/ physician. Collect spillage. Dispose of contents/ container to an approved waste disposal plant.
Supplemental information	:	EUH401 EUH208	To avoid risks to human health and the environment, comply with the instructions for use. Contains lufenuron. May produce an allergic reaction.

Hazardous components which must be listed on the label:

- emamectin benzoate

Labelling: EU Directives 67/548/EEC or 1999/45/EC

Symbol(s)



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R-phrase(s)	:	R22 R48/22 R68/20/21/22 R50/53	Harmful if swallowed. Harmful: danger of serious damage to health by prolonged exposure if swallowed. Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	:	S 2 S13 S20/21 S35 S36/37 S57	Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. This material and its container must be disposed of in a safe way. Wear suitable protective clothing and gloves. Use appropriate container to avoid environmental contamination.
Additional Labelling	:	To avoid risks to man and the environment, comply with the instructions for use. EUH208 Contains lufenuron. May produce an allergic reaction.	

Hazardous components which must be listed on the label:

- emamectin benzoate

2.3 Other hazards

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration
lufenuron	103055-07-8	N, Xi R43 R50/53	Skin Sens.1; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410	40 % W/W
emamectin benzoate	155569-91-8 155569-91-8	T, N R23/24/25 R39/23/24/25 R41 R48/25 R50/53	Acute Tox.3; H301 Acute Tox.3; H311 Acute Tox.3; H331 Eye Dam.1; H318 STOT SE1; H370 STOT RE1; H372 Aquatic Acute1; H400 Aquatic Chronic1; H410	5 % W/W

Substances for which there are Community workplace exposure limits.

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

- General advice** : Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control center or physician, or going for treatment.
- Inhalation** : Move the victim to fresh air.
If breathing is irregular or stopped, administer artificial respiration.
Keep patient warm and at rest.
Call a physician or poison control centre immediately.
- Skin contact** : Take off all contaminated clothing immediately.
Wash off immediately with plenty of water.
If skin irritation persists, call a physician.
Wash contaminated clothing before re-use.
- Eye contact** : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses.
Immediate medical attention is required.
- Ingestion** : If swallowed, seek medical advice immediately and show this container or label.
Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms** : Lack of coordination
Tremors
Dilatation of the pupil

4.3 Indication of any immediate medical attention and special treatment needed

- Medical advice** : This material is believed to enhance GABA activity in animals. It is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic mectin exposure.
Toxicity can be minimized by early administration of chemical absorbents (e.g. activated charcoal).
If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parental fluid replacement therapy should be given, along with other required supportive measures as indicated by clinical signs, symptoms and measurements.

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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Extinguishing media - small fires
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media - large fires
Alcohol-resistant foam
or
Water spray

Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).
Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Wear full protective clothing and self-contained breathing apparatus.

Do not allow run-off from fire fighting to enter drains or water courses.
Cool closed containers exposed to fire with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8.
Avoid dust formation.

6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).
Do not create a powder cloud by using a brush or compressed air.
Clean contaminated surface thoroughly.

If the product contaminates rivers and lakes or drains inform respective authorities.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.
Refer to disposal considerations listed in section 13.

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SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

No special protective measures against fire required.
 Avoid contact with skin and eyes.
 When using do not eat, drink or smoke.
 For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

No special storage conditions required.
 Keep containers tightly closed in a dry, cool and well-ventilated place.
 Keep out of the reach of children.
 Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

Registered Crop Protection products: For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	Exposure limit(s)	Type of exposure limit	Source
emamectin benzoate	0.02 mg/m ³	8 h TWA	SYNGENTA
lufenuron	5 mg/m ³	8 h TWA	SYNGENTA

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

8.2 Exposure controls

Engineering measures : Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.
 The extent of these protection measures depends on the actual risks in use.
 If airborne dust is generated, use local exhaust ventilation controls.
 Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.
 Where necessary, seek additional occupational hygiene advice.

Protective measures : The use of technical measures should always have priority over the use of personal protective equipment.
 When selecting personal protective equipment, seek appropriate professional advice.

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- Personal protective equipment should be certified to appropriate standards.
- Respiratory protection** : No personal respiratory protective equipment normally required. A particulate filter respirator may be necessary until effective technical measures are installed.
- Hand protection** : Chemical resistant gloves are not usually required. Select gloves based on the physical job requirements.
- Eye protection** : Eye protection is not usually required. Follow any site specific eye protection policies.
- Skin and body protection** : No special protective equipment required. Select skin and body protection based on the physical job requirements.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical state** : solid
- Form** : granules
- Colour** : brown to dark brown
- Odour** : No data available
- Odour Threshold** : No data available
- pH** : 7 - 11 at 1 % w/v
- Melting point/range** : No data available
- Boiling point/boiling range** : No data available
- Flash point** : No data available
- Evaporation rate** : No data available
- Flammability (solid, gas)** : not highly flammable
- Lower explosion limit** : No data available
- Upper explosion limit** : No data available
- Vapour pressure** : No data available
- Relative vapour density** : No data available
- Density** : 1 g/cm³ at 25 °C
- Solubility in other solvents** : No data available
- Partition coefficient: n-octanol/water** : No data available
- Auto-ignition temperature** : No data available
- Thermal decomposition** : No data available
- Viscosity, dynamic** : No data available
- Viscosity, kinematic** : No data available
- Explosive properties** : Not explosive
- Oxidizing properties** : not oxidizing

9.2 Other information

- Minimum ignition temperature** : 500 °C
- Dust explosion class** : Forms flammable dust clouds.
- Minimum ignition energy** : 0.1 - 0.3 J
- Burning number** : 2 at 20 °C
: 2 at 100 °C

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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

See section 10.3 "Possibility of hazardous reactions".

10.2 Chemical stability

The product is stable when used in normal conditions

10.3 Possibility of hazardous reactions

No hazardous reactions by normal handling and storage according to provisions.

10.4 Conditions to avoid

No decomposition if used as directed.

10.5 Incompatible materials

No substances are known which lead to the formation of hazardous substances or thermal reactions.

10.6 Hazardous decomposition products

Combustion or thermal decomposition will evolve toxic and irritant vapors.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity	: LD50 female Rat, 2,000 mg/kg
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Acute inhalation toxicity	: LC50 Rat, > 5.02 mg/l , 4 h
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Acute dermal toxicity	: LD50 male and female Rat, > 5,000 mg/kg
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Skin corrosion/irritation	: Rabbit: Mildly irritating
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Serious eye damage/eye irritation	: Rabbit: Mildly irritating
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Respiratory or skin sensitisation	: Mouse: Not a skin sensitizer.
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Germ cell mutagenicity

lufenuron	: Did not show mutagenic effects in animal experiments.
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emamectin benzoate	: Did not show mutagenic effects in animal experiments.
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Carcinogenicity

lufenuron	: Did not show carcinogenic effects in animal experiments.
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emamectin benzoate	: Did not show carcinogenic effects in animal experiments.
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Teratogenicity

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- | | | |
|---------------------------------|---|--|
| lufenuron | : | Did not show teratogenic effects in animal experiments. |
| emamectin benzoate | : | Did not show teratogenic effects in animal experiments. |
| Reproductive toxicity | | |
| lufenuron | : | Did not show reproductive toxicity effects in animal experiments. |
| emamectin benzoate | : | Did not show reproductive toxicity effects in animal experiments. |
| STOT - single exposure | | |
| emamectin benzoate | : | Exposure routes: Ingestion, Inhalation, Skin contact
A single exposure may damage the central and peripheral nervous systems. |
| STOT - repeated exposure | | |
| lufenuron | : | No adverse effect has been observed in chronic toxicity tests. |
| emamectin benzoate | : | Central nervous system effects in chronic/subchronic animal tests. |

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

- | | | |
|--|---|---|
| Toxicity to fish | : | LC50 Oncorhynchus mykiss (rainbow trout), 2.74 mg/l , 96 h |
| Toxicity to aquatic invertebrates | : | EC50 Daphnia magna (Water flea), 0.000718 mg/l , 48 h |
| Toxicity to aquatic plants | : | EC50 Pseudokirchneriella subcapitata (green algae), > 150 mg/l , 72 h |

12.2 Persistence and degradability

Biodegradability

- | | | |
|--------------------|---|----------------------------|
| lufenuron | : | Not biodegradable |
| emamectin benzoate | : | Not readily biodegradable. |

Stability in water

- | | | |
|--------------------|---|---|
| lufenuron | : | Degradation half life: 112 d
Not persistent in water. |
| emamectin benzoate | : | Degradation half life: 0.4 - 1.74 d
Not persistent in water. |

Stability in soil

- | | | |
|--------------------|---|--|
| lufenuron | : | Degradation half life: 28 d
Not persistent in soil. |
| emamectin benzoate | : | Degradation half life: 0.335 - 2.56 d
Not persistent in soil. |

12.3 Bioaccumulative potential

- | | | |
|--------------------|---|---------------------------|
| lufenuron | : | Lufenuron bioaccumulates. |
| emamectin benzoate | : | Does not bioaccumulate. |

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12.4 Mobility in soil

lufenuron : immobile
emamectin benzoate : immobile

12.5 Results of PBT and vPvB assessment

lufenuron : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
This substance is not considered to be very persistent and very bioaccumulating (vPvB).

emamectin benzoate : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
This substance is not considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with chemical or used container.
Do not dispose of waste into sewer.
Where possible recycling is preferred to disposal or incineration.
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Empty remaining contents.
Triple rinse containers.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

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SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/RID)

14.1 UN number:	UN 3077
14.2 UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (EMAMECTIN BENZOATE AND LUFENURON)
14.3 Transport hazard class(es):	9
14.4 Packing group:	III
Labels:	9
14.5 Environmental hazards :	Environmentally hazardous
Tunnel restriction code:	E

Sea transport(IMDG)

14.1 UN number:	UN 3077
14.2 UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (EMAMECTIN BENZOATE AND LUFENURON)
14.3 Transport hazard class(es):	9
14.4 Packing group:	III
Labels:	9
14.5 Environmental hazards :	Marine pollutant

Air transport (IATA-DGR)

14.1 UN number:	UN 3077
14.2 UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (EMAMECTIN BENZOATE AND LUFENURON)
14.3 Transport hazard class(es):	9
14.4 Packing group:	III
Labels:	9

14.6 Special precautions for user

none

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

GHS-Labeling

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Hazard pictograms



Signal word	:	Warning
Hazard statements	:	H302 Harmful if swallowed. H370 Causes damage to the nervous system. H372 Causes damage to the nervous system through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	P102 Keep out of reach of children. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment. P309 + P311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/ physician. P391 Collect spillage. P501 Dispose of contents/ container to an approved waste disposal plant.
Supplemental information	:	EUH208 Contains lufenuron. May produce an allergic reaction.
Remarks	:	Classified using all GHS hazard classes and categories. Where the GHS contains options, the most conservative option has been chosen. Regional or national implementations of GHS may not implement all hazard classes and categories.

Hazardous components which must be listed on the label:

- emamectin benzoate

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: OTHER INFORMATION

Further information

Full text of R-phrases referred to under sections 2 and 3:

R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R48/25	Toxic: danger of serious damage to health by prolonged exposure if swallowed.

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

Full text of H-Statements referred to under sections 2 and 3.

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H370	Causes damage to the nervous system.
H371	May cause damage to the nervous system.
H372	Causes damage to the nervous system through prolonged or repeated exposure.
H373	May cause damage to the nervous system through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

ADR:	European Agreement Concerning the International Carriage of Dangerous Goods by Road	RID:	Regulations concerning the International Carriage of Dangerous Goods by Rail
IMDG:	International Maritime Code for Dangerous Goods	IATA-DGR:	International Air Transport Association Dangerous Goods Regulations
LC50:	Lethal concentration, 50%	LD50:	Lethal dose, 50%
EC50:	Effective dose, 50%	GHS:	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

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