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

1.1 Product identifier

Product name : ACTELLIC 50EC

Design code : A5832C

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 UK Limited

CPC4, Capital Park

Fulbourn, Cambridge CB21 5XE

Telephone : (01223) 883400 **Telefax** : (01223) 882195

Website : www.syngenta.co.uk

1.4 Emergency telephone number

: +44 (0) 1484 538444

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008

Flammable liquids	Category 3	H226
Acute toxicity (Oral)	Category 4	H302
Aspiration hazard	Category 1	H304
Skin Sensitisation	Category 1B	H317
Serious eye damage	Category 1	H318
STOT – single exposure	Category 3	H335
STOT – single exposure	Category 3	H336
Acute aquatic toxicity	Category 1	H400
Chronic aquatic toxicity	Category 1	H410

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

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2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008



Hazardous components which must be listed on the label:

- pirimiphos-methyl
- solvent naphtha (petroleum), light arom.

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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 (REGULATION (EC) No 1272/2008)	Concentration
pirimiphos-methyl	29232-93-7 249-528-5	Acute Tox.4; H302 Aquatic Acute1; H400 Aquatic Chronic1; H410	49 % W/W
solvent naphtha (petroleum), light arom.	64742-95-6 265-199-0 01-2119455851-35-0 002	Flam. Liq.3; H226 STOT SE3; H335 STOT SE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411	40 - 50 % W/W
calcium dodecyl benzene sulphonate	26264-06-2 90194-26-6 247-557-8	Skin Irrit.2; H315 Eye Dam.1; H318	1 - 5 % W/W
2-methylpropan-1-ol	78-83-1 201-148-0 01-2119484609-23-0 012	Flam. Liq.3; H226 STOT SE3; H335 Skin Irrit.2; H315 Eye Dam.1; H318 STOT SE3; H336	1 - 2 % W/W

Substances for which there are Community workplace exposure limits. For the full text of the H-Statements mentioned in this Section, see Section 16.

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 centre 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 :

The symptoms are of cholinesterase inhibition

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4.3 Indication of any immediate medical attention and special treatment needed

Medical advice

Call Syngenta at the emergency number shown in this document, a poison control center or doctor immediately for treatment advice. Consider taking venous blood for determination of blood cholinesterase

activity (use heparin tube)

Administer atropine sulfate, either by intramuscular or intravenously,

dependant on severity of poisoning

Specific antidotes are oximes (e.g. Pralidoxime) or Toxogonin

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

Use 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 fire-fighters:

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. Keep people away from and upwind of spill/leak. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Remove all sources of ignition. Pay attention to flashback.

6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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

Avoid contact with skin and eyes. When using do not eat, drink or smoke. Use only in an area containing flame proof equipment. Take precautionary measures against static discharges. For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from combustible material. Keep in an area equipped with sprinklers. Keep away from food, drink and animal feedingstuffs. No smoking.

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
pirimiphos-methyl	3 mg/m3 (Skin)	8 h TWA	SYNGENTA
solvent naphtha (petroleum), light arom.	100 mg/m3	8 h TWA	SUPPLIER

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. Personal protective

equipment should be certified to appropriate standards.

Respiratory protection A gas and vapor filter respirator may be necessary until effective

technical measures are installed. Protection provided by air-purifying respirators is limited. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not

provide adequate protection.

Hand protection Chemical resistant gloves should be used. Gloves should be certified

to an appropriate standard. Gloves should have a minimum

breakthrough time that is appropriate to the duration of exposure. The

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breakthrough time of gloves varies according to the thickness, material

and manufacturer. Gloves should be changed when breakthrough is

suspected. Suitable material: nitrile rubber.

Eye protection If eye contact is possible, use tight-fitting chemical safety goggles and a

faceshield.

Skin and body protection Assess the exposure and select chemical resistant clothing based on

the potential for contact and the permeation / penetration

characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before reuse, or use disposable equipment (suits, aprons, sleeves, boots, etc.).

Wear as appropriate: impervious protective suit.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical

properties

Physical State : liquid Form : liquid.clear

Colour : light yellow to brown.

Odour : aromatic

Odour Threshold : No data available pH : 4 - 8 at 1 % w/v Melting point/range : No data available Boiling point/boiling range : No data available

Flash point : 46 °C

Evaporation rate : No data available Flammability (solid, gas) : No data available Lower explosion limit : No data available Upper explosion limit : No data available Vapour pressure : No data available Relative vapour density : No data available Density : 1.02 g/ml at 20 °C Solubility in other solvents : Miscible in water

Partition Coefficient

n-octanol/water

Autoignition temperature : 410 °C

: No data available

Thermal decomposition : No data available Viscosity, dynamic : 4.61 mPa.s at 40 °C 8.08 mPa.s at 20 °C

Viscosity, kinematic : No data available Explosive properties : Not explosive Oxidizing properties : Not oxidising

9.2 Other information

Surface tension 35.3 mN/m at 25 °C

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity : No information available10.2 Chemical Stability : No information available

10.3 Possibility of hazardous: None known. Hazardous polymerisation does not

tions occur.

reactions

10.4 Conditions to avoid

: No information available

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10.5 Incompatible materials No information available

10.6 **Hazardous decomposition** Combustion or thermal decomposition will evolve products

toxic and irritant vapours.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity : LD50 female rat, 300 - 2,000 mg/kg

Acute inhalational toxicity

pirimiphos-methyl LC50 male and female rat, > 5.04 mg/l, 4 h

solvent naphtha Irritating to respiratory system.

(petroleum), light arom.

Acute dermal toxicity LD50 male and female rat, > 2,000 mg/kg

Skin corrosion/irritation rabbit: Mildly irritating Serious eye damage/eye rabbit: Moderately irritating

irritation

Buehler Test guinea pig: A skin sensitizer in animal tests.. Respiratory or skin sensitisation

Germ cell mutagenicity

pirimiphos-methyl Did not show mutagenic effects in animal experiments. 2-methylpropan-1-ol Did not show mutagenic effects in animal experiments.

Carcinogenicity

pirimiphos-methyl Did not show carcinogenic effects in animal experiments. 2-methylpropan-1-ol Did not show carcinogenic effects in animal experiments.

Teratogenicity

pirimiphos-methyl Did not show teratogenic effects in animal experiments.

Reproductive toxicity

pirimiphos-methyl Did not show reproductive toxicity effects in animal experiments. 2-methylpropan-1-ol Did not show reproductive toxicity effects in animal experiments.

STOT - single exposure

2-methylpropan-1-ol May cause drowsiness or dizziness.

STOT – repeated exposure

pirimiphos-methyl No adverse effect has been observed in chronic toxicity tests. No adverse effect has been observed in chronic toxicity tests.

2-methylpropan-1-ol

Aspiration Toxicity Solvent naphtha Aspiration hazard if swallowed - can enter lungs and cause

(petroleum), light arom.

damage.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish : LC50 Cyprinus carpio (Carp), 6.2 mg/l, 96 h Toxicity to aquatic invertebrates : EC50 Daphnia magna (Water flea), 0.48 μg/l , 48 h

: EbC50 Pseudokirchneriella subcapitata (green algae), 3.07 mg/l, 72 h Toxicity to aquatic plants

ErC50 Pseudokirchneriella subcapitata (green algae), 8.27 mg/l, 72 h

12.2 Persistence and degradability

Stability in water

: Degradation half life: 4 - 6 d pirimiphos-methyl

Persistent in water

Stability in soil

: Degradation half life: 8.3 d pirimiphos-methyl

Not persistent in soil

12.3 Bioaccumulative potential

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pirimiphos-methyl : High potential for bioaccumulation

12.4 Mobility in soil

pirimiphos-methyl : Low mobility in soil

12.5 Results of PBT and vPvB assessment

pirimiphos-methyl : This substance is not considered to be persistent, bioaccumulating nor

toxic (PBT).

This substance is not considered to be very persistent nor very

bioaccumulating (vPvB).

12.6 Other adverse effects

Other information :Classification of the product is based on the summation of the concentrations of

classified components.

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 for local recycling or waste disposal. Do not re-use

empty containers.

SECTION 14. TRANSPORT INFORMATION

Land transport (ADR/RID)

14.1	UN Number	:	UN 1193
14.2	UN proper shipping name	:	FLAMMABLE LIQUID, N.O.S. (SUBSTITUTED BENZENOIDHYDROCARBONS AND PIRIMIPHOS- METHYL)
14.3	Transport hazard class(es)	:	3
14.4	Packing Group	;	III
Label	S	:	3
14.5	Environmental hazards	:	Environmentally hazardous

Sea transport(IMDG)

14.1	UN Number	:	UN 1993
14.2	UN proper shipping name	:	FLAMMABLE LIQUID, N.O.S. (SUBSTITUTED BENZENOID HYDROCARBONS AND PIRIMIPHOS-METHYL)
14.3	Transport hazard class(es)	:	3
14.4	Packing Group	;	III
Label	S	:	3
14.5	Environmental hazards	:	Marine Pollutant

Air transport (IATA-DGR)

14.1	UN Number	:	UN 1993
14.2	UN proper shipping name	:	FLAMMABLE LIQUID, N.O.S. (SUBSTITUTED
			BENZENOID HYDROCARBONS AND PIRIMIPHOS-
			METHYL)
14.3	Transport hazard class(es)	:	3

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14.4 Packing Group	;	III
Labels	:	3
14.6 Special precautions for user	:	none

14.6 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-Labelling

Hazard pictograms	_	
		AV.
Signal Word	:Danger	
Hazard Statements	:H226	Flammable liquid and vapour.
	:H302	Harmful if swallowed.
	:H304	May be fatal if swallowed and enters airways.
	:H317	May cause an allergic skin reaction.
	:H318	Causes serious eye damage.
	:H335	May cause respiratory irritation.
	:H336 :H410	May cause drowsiness or dizziness.
	. П4 10	Very toxic to aquatic life with long lasting effects.
Precautions Statements	:P102	Keep out of reach of children.
	:P210	Keep away from heat/sparks/open flames/hot
		surfaces No smoking.
	:P280	Wear protective gloves/protective clothing/eye
		protection/face protection.
	:P301/P310	IF SWALLOWED: Immediately call a POISON
		CENTER or doctor/ physician.
	:P305/P351/P338	IF IN EYES: Rinse cautiously with water for several
		minutes. Remove contact lenses, if present and easy
	.D004	to do. Continue rinsing.
	:P331 :P391	Do NOT induce vomiting
	:P391 :P501	Collect spillage. Dispose of contents/container to a licensed
	.P301	hazardous-waste disposal contractor or
		collection site except for empty clean containers
		which can be disposed of as non-hazardous
		waste.
Supplemental	:EUH401	To avoid risks to human health and the environment
Information		comply with the instructions for use.
	:EUH066	Repeated exposure may cause skin dryness or
		cracking.

Hazardous components which must be listed on the label:

- pirimiphos-methyl
- solvent naphtha (petroleum), light arom.

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15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16. OTHER INFORMATION

Approval number, MAPP 12726.

Use plant protection products safely. Always read the label and product information before use.

Based upon SDS release dated 12/11/2013, version 11 with local amendment.

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

H226	Flammable liquid and vapour
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

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

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