Product information

Summary

**FORMULATION & ACTIVE INGREDIENT:** ACTELIC 50EC is an emulsifiable concentrate formulation containing 500 g/l (49.02% w/w) pirimiphos-methyl.

**MAPP NUMBER:** 12726

**PACK SIZE:** 1 litre

**TARGETS:** A broad spectrum insecticide for use on stored grain.

**CROPS:** Wheat, barley, oats.

**PRACTICAL NOTES:**

**USE:** Complete or surface admixture

**MAXIMUM INDIVIDUAL DOSE:** 8 ml product per tonne grain

**MAXIMUM TOTAL DOSE OR MAXIMUM NUMBER OF APPLICATIONS:** One per batch of grain

**OTHER SPECIFIC RESTRICTIONS:** The maximum concentration must not exceed 8 mls product/0.75 litres water

This product label is compliant with the CPA Voluntary Initiative (VI) guidance.

NAN0124/2006

Compatibility

**COMPATIBILITY**

No compatibilities available for this product.

Product Label
DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be carefully read in order to obtain safe and successful use of this product.

PESTS CONTROLLED
ACTELIC 50EC controls the following pests of stored grain: Saw-toothed Grain Beetle (*Oryzaephilus surinamensis*), Grain Weevil (*Sitophilus granarius*), Common Flour Mite (*Acarus siro*), Warehouse Moth (*Ephestia elutella*), Flour or Mill Moth (*Ephestia kuhniella*), Flour Beetles (*Tribolium spp.*), Rust-red Grain Beetle (*Cryptolestes ferrugineus*) and Cosmopolitan Food Mite (*Glycyphagus destructor*).

COMPLETE ADMIXTURE
(Wheat, barley, oats)
**Preparation:** For best results the store should be thoroughly cleaned before the grain is added.

**Timing:** Grain should be treated as soon as possible during storage. Ideally ACTELIC 50EC should be applied to the grain as it is loaded into store. However, moist and/or warm grain should be dried and/or cooled before treatment. Vigorous drying and cooling operations can reduce the effectiveness of treatment by causing degradation of the insecticide. Whenever such operations are necessary for grain going into longer term storage they should be conducted prior to treatment, ideally before the grain is loaded into its final storage place.

**Moisture content:** For best results when using ACTELIC 50EC moisture contents should be maintained at or below 15% for cereals. If the moisture content is higher the effectiveness of treatment and the period of protection can be reduced.

**Curative treatment:** Always inspect grain following application to ensure that control is complete.

SURFACE ADMIXTURE
(Wheat, barley, oats)
**Preparation:** Surface admixture will be effective only if the store is thoroughly cleaned and disinfested and if the grain coming into store is free of insect or mite pests.

**Treatment:** Treat the surface layer of the grain bulk to a depth of at least 30–100 cm. This can be done by first part filling the store and levelling the bulk of untreated grain. Treat the remaining grain as it enters the store, distribute evenly over the bulk to create a treated layer.

**Storage conditions:** Care should be taken to ensure that the moisture content of the grain is kept low (at or below 15% for cereals), and that the bulk is kept cool. Any subsequent movement of the surface layer will reduce the effectiveness of treatment.

Surface admixture of ACTELIC 50EC is compatible with ‘Integrated Pest Control’ (IPC).

Further details are available from specialist advisers or your local Syngenta adviser.

**Important note:** Surface admixture is recommended for use only where the above preparation, treatment and storage conditions can be achieved. The use of surface admixture under any other circumstances is at user’s own risk.

Complete or Surface Admixture
Ensure good spray coverage of the grain or seed. Adjust the conveyor to produce a shallow, even flow of grain or seed at the point of application. Poor or uneven coverage may reduce the level of control.

Establish the grain or seed carrying rate of the conveyor and ensure accurate calibration of application equipment. See above for additional information.
Wheat, barley and oats: including barley for malting, milling wheat and seed

For a conveyor rate of 22.5–45 tonnes per hour: Apply 8 ml product in 0.75 litres of water per tonne through a medium/coarse type nozzle.

For a conveyor rate of below 22.5 tonnes per hour: Apply 8 ml product in 1.5 litres of water per tonne. This can be achieved using an orifice plate (e.g. ‘Teejet’ orifice plate 4916 series).

Wheat, barley and oats:
Maximum individual dose: 8 ml product/tonne grain.
Maximum number of treatments: One per batch of grain.
Other specific restrictions: The maximum concentration must not exceed 8 ml product/0.75 litres water.

Important note
Where grain has been treated by admixture, it must be labelled as follows: “THIS GRAIN HAS BEEN CHEMICALLY TREATED”.

MIXING INSTRUCTIONS
Shake well before use. Half fill the spray tank with water and begin agitation. Add the required quantity of ACTELLCIC 50EC to the spray tank and complete filling. Maintain agitation during application and apply immediately.

APPLICATION
Apply using a suitable liquid applicator. DO NOT APPLY surface admixture or complete admixture using hand held equipment. Follow the manufacturer’s instructions and take care to minimise the risk of operator exposure. Consult your supplier or Syngenta UK Ltd for a list of application equipment suppliers.

AFTER USE
Empty application equipment and clean thoroughly after use. Part used containers must be securely sealed and stored away from food, drink and animal feeding stuffs. Do not re-use the container for any purpose.

Notes:
1. For best results when using ACTELLCIC 50EC moisture contents should be maintained at or below 15% for cereals. If the moisture content is higher the effectiveness of treatment and the period of protection can be reduced.
2. Insecticide treatments tend to work more slowly, and be less effective in cold conditions.
3. Moist grain coming into store should be dried and cooled before treatment with ACTELLCIC 50EC. Drying and cooling operations made after treatment can reduce the effectiveness of treatment.
4. Predatory mites (Cheyletus) are sometimes found in grain feeding on infestations of grain mites. They are not a pest species and do not harm grain, but their presence can cause rejection by buyers. Predatory mites can survive treatments of organophosphorus insecticides (e.g. ACTELLCIC 50EC) and are sometimes found after curative treatments to control heavy mite infestations. They will not remain for long after their food source has been removed, but grain should be inspected carefully before selling.
5. Handling grain treated with this product does not require the use of face and eye protection. However, dust from the grain itself has been known to cause irritation of eyes, throat, chest and skin and so when working with grain the use of eye protection and a dust mask is advisable.

This product is to be used only in accordance with the recommendations and instructions given on the labels provided with this pack. Use in any other circumstances is entirely at user’s risk.
PROTECT FROM FROST

SAFETY PRECAUTIONS

(a) Operator protection

Pirimiphos-methyl is an anticholinesterase organophosphorus compound. DO NOT USE if under medical advice NOT to work with such compounds.

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

Application as a grain admixture must only be made using automated application equipment.

Other engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES when handling the treated grain and contaminated grain sowing equipment.

However engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH SPLASHES OF CONCENTRATE from skin or eyes immediately.

ENSURE ADEQUATE VENTILATION IN CONFINED SPACES.

DO NOT BREATHE SPRAY.

WASH HANDS AND EXPOSED SKIN before meals and after work.

TAKE OFF immediately all contaminated clothing.

COVER WATER STORAGE TANKS before application.

VENTILATE CONFINED SPACES THOROUGHLY.

IF SWALLOWED, do not induce vomiting: seek medical advice immediately and show this container or label.

DO NOT HANDLE grain unnecessarily.

(b) Environmental protection

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.

Wildlife must be excluded from buildings during treatment.

(c) Storage and disposal

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

DO NOT RE-USE CONTAINER for any purpose.

THE (COSHH) CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS MAY APPLY TO THE USE OF THIS PRODUCT AT WORK

IMPORTANT INFORMATION

USE ONLY AS AN INSECTICIDE IN FOOD STORAGE PRACTICE
For use on wheat, barley and oats
Admixture: Stored wheat, barley and oats
Maximum individual dose: 8 ml product/tonne grain
Maximum number of treatments: One per batch of grain

Other specific restrictions: The maximum concentration must not exceed 8 ml product/0.75 litres water

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS

Syngenta UK Limited, CPC4, Capital Park, Fulbourn, Cambridge CB21 5XE
Tel: Cambridge (01223) 883400

In case of toxic or transport emergency ring 01484 538444 any time

Safety Data

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY OR 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 Ltd
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 (24h)

SECTION 2. HAZARDS IDENTIFICATION
2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008
Xn, Harmful
N, Dangerous for the environment R10:
Flammable.
R22: Harmful if swallowed
R37: Irritating to respiratory system.
R41: Risk of serious damage to eyes.
R43: May cause sensitisation by skin contact.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65: Harmful: may cause lung damage if swallowed.
R67: Vapours may cause drowsiness and dizziness.

2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008

Hazard pictograms
Hazardous components which must be listed on the label:
- primiphos-methyl
- solvent naphtha (petroleum), light arom
2.3 Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name: pirimiphos-methyl
CAS-No.: 29232-93-7
Ec-No.: 249-528-5
Classification (67/548/EEC): Xn,N, R22, R50/53
Classification (REGULATION (EC) NO 1272/2008): Acute Tox.4; H302 Aquatic Acute1; H400 Aquatic Chronic1; H410
Concentration (% w/w): 49

<table>
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<tr>
<th>Chemical Name</th>
<th>CAS-No. EC-No. Registration number</th>
<th>Classification (67/548/EEC)</th>
<th>Classification (REGULATION (EC) NO 1272/2008)</th>
<th>Concentration</th>
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</thead>
<tbody>
<tr>
<td>pirimiphos-methyl</td>
<td>29232-93-7 249-528-5</td>
<td>Xn, N R22 R50/53</td>
<td>Acute Tox.4; H302 Aquatic Acute1; H400 Aquatic Chronic1; H410</td>
<td>49 % WW</td>
</tr>
<tr>
<td>solvent naphtha (petroleum), light arom</td>
<td>64745-95-6 265-199-0 01-211945861-350-002</td>
<td>Xn, N R10 R51/53 R65 R67</td>
<td>Flam. Liq.3; H220 STOT GE3; H335 STOT GE3; H336 Asp. Tox.1; H304 Aquatic Chronic2; H411</td>
<td>40 - 50 % WW</td>
</tr>
<tr>
<td>calcium dodecyl benzene dinitrobenzolate</td>
<td>80621-06-7 20024-28-8 247-657-8</td>
<td>Xi R18 R41</td>
<td>Skin Irrit.2; H315 Eye Dam.1; H318</td>
<td>1 - 5 % WW</td>
</tr>
<tr>
<td>2-methylopropan-1-ol</td>
<td>72-63-1 201-149-0 01-211948409-233-012 247-657-8</td>
<td>Xi R10 R37/38 R41 R67</td>
<td>Flam. Liq.3; H220 STOT GE3; H335 Skin Irrit.2; H315 Eye Dam.1; H318 STOT GE3; H338</td>
<td>1 - 2 % WW</td>
</tr>
</tbody>
</table>

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.

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 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:**

Symptoms: The symptoms are of cholinesterase inhibition.

**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 centre or doctor immediately for treatment advice. Consider taking venous blood for determination of blood cholinesterase activity (use heparin tube). Administer atropine sulphate, either by intramuscular or intravenously, dependant on severity of poisoning. Specific antidotes are oximes (e.g. Pralidoxime) or Toxogonin.

**SECTION 5. FIRE FIGHTING 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 for cleaning up:**

Contain and collect spillage 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.
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

Components with workplace control parameters

pirimiphos-methyl
Exposure limit(s): 3 mg/m3
Value type: 8 h TWA
Source: SYNGENTA

solvent naphtha (petroleum), light arom.
Exposure limit(s): 100 mg/m3
Value type: 8 h TWA
Source: SUPPLIER

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 mists or vapours are 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 particulate 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 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 re-use, 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/range: No data available
Flash Point: 46%
Evaporation Rate: No data available
Flammability (solid, gas): Not 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: No data available
Autoignition temperature: >410°C
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 mNm/m at 25°C

SECTION 10. STABILITY AND REACTIVITY
10.1 Reactivity: No information available
10.2 Chemical stability: No information available
10.3 Possibility of hazardous reactions: None known. Hazardous polymerisation does not occur. Stable under normal conditions.
10.4 Conditions to avoid: No information available
10.5 Incompatible materials: No information available
10.6 Hazardous decomposition products: Combustion or thermal decomposition will evolve toxic and irritant vapours.
SECTION 11. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish: LC50 Cyprinus carpio (carp), 6.2 mg/l, 96h
Toxicity to aquatic invertebrates: EC50 Daphnia magna (Water flea), 0.48 µg/l, 48 h
Toxicity to aquatic plants: EbC50 Pseudokirchneriella subcapitata (green algae), 3.07 mg/l, 72 h
EbC50 Pseudokirchneriella subcapitata (green algae), 8.27 mg/l, 72h

12.2 Persistence and degradability

Stability in water
pirimiphos-methyl: Degradation half life: 4-6 d
Persistent in water

Stability in soil
pirimiphos-methyl: Degradation half life: 8.3 d
Not persistent in soil

12.3 Bioaccumulative potential

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 12. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral Toxicity: LD50 female rat, 300-2000 mg/kg
Acute Inhalation Toxicity:
pirimiphos-methyl : LC50 male and female rat, >5.04 mg/l, 4 h
solvent naphtha (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 irritation: Rabbit, Moderately irritating.
Respiratory or skin sensitisation: Buehler test guinea pig: A skin sensitizer in animal tests.
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.
2-methylpropan-1-ol: No adverse effect has been observed in chronic toxicity tests.
Aspiration Toxicity
Solvent naphtha (petroleum), light arom: Aspiration hazard if swallowed - can enter lungs and cause damage.

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: 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
14.5 Environmental hazards: Environmentally hazardous

Sea transport (IMDG)

14.1 UN Number: 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
14.5 Environmental hazards: Marine Pollutant

Air transport (IATA-DGR)

14.1 UN Number: 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
14.5 Environmental hazards: 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

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 May cause drowsiness or dizziness.
H410 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/P330 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 to do. Continue rinsing.
P331 Do NOT induce vomiting.
P334 Collect spillage.
P501 Dispose of contents/container to a licensed hazardous waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

Supplemental Information
EUH401 To avoid risks to human health and the environment comply with the instructions for use.
EUH066 Repeated exposure may cause skin dryness or cracking.

15.2 Chemical Safety Assessment
A Chemical Safety Assessment is not required for this substance.

SECTION 16. OTHER INFORMATION
Product 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 R-phrases referred to under sections 2 and 3:
R10 Flammable
R22 Harmful if swallowed
R37 Irritating respiratory system
R37/38 Irritating to respiratory system and skin
R38 Irritating to skin
R41 Risk of serious damage to eyes
R50/53 Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65 Harmful: May cause lung damage if swallowed
R66 Repeated exposure may cause skin dryness or cracking
R67 Vapours may cause drowsiness and dizziness

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 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.

Product names are a trademark or registered trademark of a Syngenta Group Company.

Environmental Info

ENVIRONMENTAL INFORMATION
A 500 g/litre EC formulation containing pirimiphos-methyl an anticholinesterase organophosphorus compound for use on stored grain.
Maximum application rate: 8 mls product per tonne grain
Maximum no. of applications: One per batch of stored wheat, barley and oat grain as an admixture.

WILDLIFE, MAMMALS AND BIRDS
WILDLIFE
ACTELLIC 50EC is not classified as ‘Harmful to game, wild birds and animals’.

**MAMMALS AND BIRDS**

No risk management is necessary to protect wild mammals and birds. ACTELLIC 50EC is of moderate toxicity to mammals and high toxicity to birds if directly consumed. ACTELLIC 50EC is used as an insecticide to treat stored grain, where it is advised to exclude wildlife. Consequently the risk to these species is low. The risk to birds and mammals consuming any spilled treated grain is low.

Wildlife must be excluded from buildings during treatment.

**BEES**

No risk management is necessary as no exposure to honey bees is anticipated.

**NON-TARGET INSECTS AND OTHER ARTHROPODS**

No risk management is necessary as no exposure to non-target insects and other arthropods is anticipated.

**AQUATIC LIFE**

ACTELLIC 50EC is classified as ‘very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment’.

ACTELLIC 50EC is extremely toxic to aquatic invertebrates and highly toxic to algae and fish. Care must be taken to ensure that surface waters or ditches are not contaminated with the product or used container.

No risk management is necessary. ACTELLIC 50EC is used as an insecticide treatment as an admixture to grain. In practice, the risk to aquatic life is low.

Not categorised under the LERAP scheme.

**SOIL AND GROUNDWATER, EARTHWORMS AND SOIL MICRO-ORGANISMS**

**SOIL AND GROUNDWATER**

No direct exposure to soil is anticipated if ACTELLIC 50EC is used according to label instructions.

**EARTHWORMS**

ACTELLIC 50EC is of moderate toxicity to earthworms, in practice the risk to earthworms is low if used as directed. No risk management necessary.

**SOIL MICRO-ORGANISMS**

ACTELLIC 50EC is unlikely to have any long-term effect on soil microbial activity, therefore the risk is considered to be low. No risk management is necessary.

**NON-TARGET PLANTS**

ACTELLIC 50EC is used as an insecticide to treat stored grain, therefore it is unlikely to have any effects on non-target plants if used as directed.
Use plant protection products safely. Always read the label and product information before use.
Care must be taken to minimise the risk of surface water contamination from farmyard and field sources.

For further information about the environmental profile of this product contact:
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This Environmental Information Sheet was prepared in accordance with CPA Guidance Notes Version 4.

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