

APHOX

Version 14 - This version replaces all previous versions.
Revision Date 17.09.2015

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**

Product name : APHOX

Design code : A10788A

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
CPC 4, 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

Acute toxicity (Oral)	Category 3	H301
Eye irritation	Category 2	H319
Acute toxicity (Inhalation)	Category 4	H332
Carcinogenicity	Category 2	H351
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

Hazard pictograms



Signal Word	:Danger	
Hazard Statements	:H301	Toxic if swallowed.
	:H319	Causes serious eye irritation
	:H332	Harmful if inhaled
	:H351	Suspected of causing cancer.
	:H410	Very toxic to aquatic life with long lasting effects
Precautions Statements	:P102	Keep out of reach of children
	:P201	Obtain special instructions before use.
	:P261	Avoid breathing dust/fume/gas/mist/vapour/spray
	:P280	Wear 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 to do. Continue rinsing.
	:P337/P313	If eye irritation persists: Get medical advice/attention.
Supplemental Information	:P391	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.
	:EUH401	To avoid risks to human health and the environment comply with the instructions for use.
	:EUH208	Contains Pirimicarb. May produce an allergic reaction.

Hazardous components which must be listed on the label:

- pirimicarb

2.3 Other hazards

May form flammable dust-air mixture.

This product contains an anticholinesterase compound. Do not use if under medical advice not to work with such compounds.

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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
pirimicarb	23103-98-2 245-430-1	Acute Tox.3; H301 Acute Tox.3; H331 Skin Sens.1; H317 Carc.2; H351 Aquatic Acute1; H400 Aquatic Chronic1; H410	50 % W/W
talc	14807-96-6 238-877-9	-	25 - 35 % W/W
sodium; 1,2-bis-(2-ethyl- hexyloxy-carbonyl)- ethanesulfonate	577-11-7 209-406-4 01-2119491296-29-0 000	Eye Dam.1; H318 Skin Irrit.2; H315	1 - 5 % 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.

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.

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, dependent on severity of poisoning. Since there is no therapeutic effect, the use of oxime preparations (or other cholinesterase reactivators) is contraindicated.

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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**
Fire will spread by burning with a visible flame. 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.
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6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Refer to protective measures listed in sections 7 and 8.
- 6.2 Environmental precautions:**
Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.
- 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
- 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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7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
This material is capable of forming flammable dust clouds in air, which, if ignited, can produce a dust cloud explosion. Flames, hot surfaces, mechanical sparks and electrostatic discharges can serve as ignition sources for this material. Electrical equipment should be compatible with the flammability characteristics of this material. The flammability characteristics will be made worse if the material contains traces of flammable solvents or is handled in the presence of flammable solvents. This material can become readily charged in most operations. Avoid contact with skin and eyes. When using, do not eat, drink or smoke. For personal protection see section 8.

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- 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 food, drink and animal feeding stuffs.
- 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Components	Exposure limit(s)	Type of exposure limit	Source
pirimicarb	1 mg/m ³	8 h TWA	SYNGENTA
talc	2 mg/m ³ (Respirable dust)	8 h TWA	DFG
	2 mg/m ³	8 h TWA	SUVA
	1 mg/m ³	8 h TWA	UK HSE
	2 mg/m ³	8 h TWA	ACGIH

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 mist 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 are not usually required. Select gloves based on the physical job requirements.
- Eye Protection** : If eye contact is possible, use tight-fitting chemical safety.
- Skin and body protection** : No special protective equipment required. Select skin and body protection based on the physical job requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- Physical State** : Solid
Form : Granules
Colour : Blue green to green

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Odour	: Weak
Odour Threshold	: No data available
pH	: 7 – 11 at 1 % w/v
Melting point/range	: 89°C
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	: >0.4 - <0.6 g/ml
Solubility in other solvents	: Soluble in water
Partition Coefficient n-octanol/water	: No data available
Autoignition temperature	: 245°C
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not oxidising

9.2 Other Information

Minimum ignition temperature	: 500 °C
Dust explosion class	: Forms flammable dust clouds
Minimum ignition energy	: >1J
Bulk density	: 0.4 - 0.6 g/cm ³
Burning number	: 5 at 100°C

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 vapours. Carbon monoxide, Carbon dioxide (CO ₂), Nitrogen oxides (NO _x), Sulphur oxides.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 male and female rat, 87 mg/kg
Acute inhalational toxicity	: LC50 male and female rat, 1.41 mg/l 4 h
Acute dermal toxicity	: LD50 male and female rat, > 2,000 mg/kg

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Skin corrosion/irritation	:	Rabbit: slightly irritating
Serious eye damage/eye irritation	:	Rabbit: moderately irritating
Respiratory or skin sensitisation	:	Guinea pig: Not a skin sensitiser in animal tests. Derived from components.
Germ cell mutagenicity pirimicarb	:	In vitro tests showed mutagenic effects which were not observed with in vivo test.
Carcinogenicity pirimicarb	:	Limited evidence of carcinogenicity in animal studies.
Teratogenicity pirimicarb	:	Animal testing did not show any effects on foetal development.
Reproductive toxicity pirimicarb	:	Animal testing did not show any effects on fertility.
STOT – single exposure Pirimicarb	:	The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT – repeated exposure pirimicarb	:	No adverse effect has been observed in chronic toxicity tests.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish pirimicarb	:	LC50 <i>Lepomis macrochirus</i> (Bluegill sunfish), 78 mg/l, 96 h Based on test results obtained with similar product.
Toxicity to aquatic invertebrates	:	EC50 <i>Daphnia magna</i> (water flea), 0.046 mg/l, 48 h
Toxicity to aquatic plants pirimicarb	:	ErC50 <i>Pseudokirchneriella subcapitata</i> (green algae), 180 mg/l, 96 h NOEC <i>Pseudokirchneriella subcapitata</i> (green algae), 180 mg/l, 96 h

12.2 Persistence and degradability

Stability in water	:	
pirimicarb	:	Degradation half life: 36-55 d. Not persistent in water.
Stability in soil	:	
pirimicarb	:	Degradation half life: 29-365 d. Not persistent in soil

12.3 Bioaccumulative potential

pirimicarb	:	Does not bioaccumulate.
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12.4 Mobility in soil

pirimicarb	:	pirimicarb has medium mobility in soil.
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12.5 Results of PBT and vPvB assessment

pirimicarb	:	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).
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12.6 Other adverse effects

Classification of this product is based on the summation of the concentrations of classified components.

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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.

14. TRANSPORT INFORMATION

Land transport (ADR/RID)

14.1	UN Number	:	UN 2757
14.2	UN proper shipping name	:	CARBAMATE PESTICIDE, SOLID, TOXIC (PIRIMICARB)
14.3	Transport hazard class(es)	:	6.1
14.4	Packing Group	;	III
Labels		:	6.1
14.5	Environmental hazards	:	Environmentally hazardous

Sea transport (IMDG)

14.1	UN Number	:	UN 2757
14.2	UN proper shipping name	:	CARBAMATE PESTICIDE, SOLID, TOXIC (PIRIMICARB)
14.3	Transport hazard class(es)	:	6.1
14.4	Packing Group	;	III
Labels		:	6.1
14.5	Environmental hazards	:	Marine pollutant

Air transport (IATA-DGR)

14.1	UN Number	:	UN 2757
14.2	UN proper shipping name	:	CARBAMATE PESTICIDE, SOLID, TOXIC (PIRIMICARB)
14.3	Transport hazard class(es)	:	6.1
14.4	Packing Group	;	III
Labels		:	6.1
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

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture

GHS-Labeling

Hazard pictograms

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Signal Word	:Danger	
Hazard Statements	:H301	Toxic if swallowed.
	:H319	Causes serious eye irritation
	:H332	Harmful if inhaled
	:H351	Suspected of causing cancer.
	:H410	Very toxic to aquatic life with long lasting effects
Precautions Statements	:P102	Keep out of reach of children
	:P201	Obtain special instructions before use.
	:P261	Avoid breathing dust/fume/gas/mist/vapour/spray
	:P280	Wear 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 to do. Continue rinsing.
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Supplemental Information	:P391	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.
	:EUH401	To avoid risks to human health and the environment comply with the instructions for use.
	:EUH208	Contains Pirimicarb. May produce an allergic reaction.

Hazardous components which must be listed on the label:

- pirimicarb

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16. OTHER INFORMATION

Approval number, MAPP 17401; PCS No. 03795

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

Based upon SDS release dated 12/11/2013, version 13 with local amendment.

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

H301	Toxic if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.

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H410 Very 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 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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