# PIRIMOR 50 WG

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

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

### 1.1 Product identifier

**Product name** : **PIRIMOR 50 WG**

**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 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

| | | |
|---|---|---|
| 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.

### 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. |
| **Precautionary statements** | : | P102 | Keep out of reach of children. |
| | | P201 | Obtain special instructions before use. |
| | | P261 | Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. |
| | | P280 | Wear eye protection/ face protection. |
| | | P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| | | 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. |
| | | P391 | Collect spillage. |
| | | P501 | Dispose of contents/ container to an approved waste disposal plant. |
| **Supplemental information** | : | 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

This product contains an anticholinesterase compound. Do not use if under medical advice not to work with such compounds.
May form flammable dust-air mixture.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

### Hazardous components

| Chemical Name | CAS-No.<br>EC-No.<br>Registration number | Classification (67/548/EEC) | Classification (REGULATION (EC) No 1272/2008) | Concentration |
|---|---|---|---|---|
| pirimicarb | 23103-98-2<br>245-430-1 | T, N<br>R23/25<br>R43<br>R40<br>R50/53 | Acute Tox.3; H301<br>Acute Tox.3; H331<br>Skin Sens.1; H317<br>Carc.2; H351<br>Aquatic Acute1; H400<br>Aquatic Chronic1; H410 | 50 % W/W |
| talc | 14807-96-6<br>238-877-9 | | - | 25 - 35 % W/W |
| sodium;<br>1,2-bis-(2-ethyl-hex yloxycarbon-yl)-ethanesulfonate | 577-11-7<br>209-406-4<br>01-2119491296-29-0000 | Xi<br>R38<br>R41<br>R18 | Eye Dam.1; H318<br>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.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

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

## 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**

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 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.

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.

## SECTION 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.

### 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 feedingstuffs.

: Physically and chemically stable for at least 2 years when stored in the original unopened sales container at ambient temperatures.

### 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 |
|---|---|---|---|
| pirimicarb | 1 mg/m3 | 8 h TWA | SYNGENTA |
| talc | 2 mg/m3 (Respirable dust)<br>2 mg/m3<br>1 mg/m3<br>2 mg/m3 | 8 h TWA<br>8 h TWA<br>8 h TWA<br>8 h TWA | DFG<br>SUVA<br>UK HSE<br>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 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 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 goggles.

**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 | : | blue green to green |
| 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<br>in Water |
| **Partition coefficient: n-octanol/water** | : | No data available |
| Auto-ignition 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 oxidizing |

### 9.2 Other information

| | | |
|---|---|---|
| **Minimum ignition temperature** | : | 500 °C |
| **Dust explosion class** | : | Forms flammable dust clouds. |
| **Minimum ignition energy** | : | > 1 J |
| **Bulk density** | : | 0.4 - 0.6 g/cm3 |
| **Burning number** | : | 5 at 20 °C |
| | : | 5 at 100 °C |

## 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.

Carbon monoxide
Carbon dioxide ($CO_2$)
Nitrogen oxides ($NO_x$)
Sulphur oxides

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

| | | |
|---|---|---|
| **Acute oral toxicity** | : | LD50 male and female Rat, 87 mg/kg |
| **Acute inhalation toxicity** | : | LC50 male and female Rat, 1.41 mg/l, 4 h |
| **Acute dermal toxicity** | : | LD50 male and female Rat, > 2,000 mg/kg |
| **Skin corrosion/irritation** | : | Rabbit: Slightly irritating |
| **Serious eye damage/eye irritation** | : | Rabbit: Moderately irritating |
| **Respiratory or skin sensitisation** | : | Buehler Test Guinea pig: Not a skin sensitizer in animal tests. |

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.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

**Toxicity to fish** : LC50 Lepomis macrochirus (Bluegill sunfish), 78 mg/l , 96 h
Based on test results obtained with similar product.

**Toxicity to aquatic invertebrates** : EC50 Daphnia magna (Water flea), 0.046 mg/l , 48 h

Toxicity to aquatic plants
pirimicarb : ErC50 Pseudokirchneriella subcapitata (green algae), 180 mg/l , 96 h

NOEC Pseudokirchneriella subcapitata (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.

### 12.4 Mobility in soil

pirimicarb : Pirimicarb has medium mobility in soil.

### 12.5 Results of PBT and vPvB assessment

pirimicarb : 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

**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 to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

## SECTION 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 |
| **Tunnel restriction code**: | E |

**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

## 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** | : | 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. |
| **Precautionary statements** | : | P102 | Keep out of reach of children. |
| | | P201 | Obtain special instructions before use. |
| | | P261 | Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. |
| | | P280 | Wear eye protection/ face protection. |
| | | P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| | | 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. |
| | | P391 | Collect spillage. |
| | | P501 | Dispose of contents/ container to an approved waste disposal plant. |
| **Supplemental information** | : | EUH208 | Contains pirimicarb. May produce an allergic reaction. |
| **Remarks** | : | Classified using all GHS hazard classes and categories.<br>Where the GHS contains options, the most conservative option has been chosen.<br>Regional or national implementations of GHS may not implement all hazard classes and categories. | |

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

**Further information**

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. |

Full text of other abbreviations

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

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.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.