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Azinphos 350 WP		R-7566

SECTION 1. Identification of the substance/mixture and of the company/undertaking

Trade name : Azinphos 350 WP
Chemical formula : Azinphos-methyl : C10H12N3O3PS2
Type of product : Insecticide
Company identification : ADAMA SOUTH AFRICA (PTY) LTD
 21 Viben Street
 Brackenfell 7560
Phone nr : +27 82 331 6463
 +27 21 982 1460

SECTION 2. Hazards identification

Classification (Directive 67/548/EEC - 1999/45/EC) : THIS COMPOUND INHIBITS CHOLINESTERASE.
Physical/Chemical Hazards : Prevent heating of material .
 Dust explosion hazards .
Human health hazards : Very toxic by inhalation and if swallowed.
 May cause sensitization by skin contact.
Environmental hazard : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 3. Composition/information on ingredients

Components : This product is considered to be hazardous and contains hazardous components.

Substance name	Concentration % w/w	CAS No	EC No	Index No	REACH Reg.	Classification
Azinphos-methyl (ISO)	35 %	86-50-0	201-676-1	015-039-00-9	----	T+; R26/28 T; R24 R43 N; R50-53

SECTION 4. First aid measures

First aid measures
Inhalation : Remove victim to fresh air. Keep victim warm and at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediately get medical attention.
Skin contact : Remove affected clothing and wash all exposed skin area with soap and water, followed by warm water rinse. Obtain medical attention.
Eye contact : Consult an eye specialist.
 In case of eye contact, immediately rinse with clean water for 10-15 minutes.
Ingestion : Do not induce vomiting. Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediately get medical attention.
Ingestion : May result in systemic poisoning.
Note to physician : Antidote 1 : Atropine sulfate
 Antidote 2 : Obidoxime chloride or Pralidoxime (PAM).
 Suggest serum and/or RBC cholinesterase determination.
 If ingested perform gastric lavage and administer activated charcoal.

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SECTION 5. Fire-fighting measures

- Suitable extinguishing media** : For small fire : dry chemical , carbon dioxide .
For large fire : water spray , alcohol resistant foam .
- Specific hazards** : When exposed to heat, may decompose liberating hazardous gases : carbon dioxide , carbon monoxide , nitrogen oxides , phosphorus oxides , sulfur oxide .
- Protection against fire** : Wear suitable protective clothing. Self-contained breathing apparatus.
- Special procedures** : Fight fires from a protected location . Dike fire control water for later disposal. Keep container cool by spraying with water .

SECTION 6. Accidental release measures

- For emergency responders** : Use appropriate protection (see section 8).
- Environmental precautions** : Dispose of this material and its container at hazardous or special waste collection point In accordance with national and regional regulations . If the product has contaminated surface water, inform the appropriate authorities.
- Clean up methods** : Collect spilled material with shovel,place into a clean container and cover container loosely . Wash away remainder with plenty of water.

SECTION 7. Handling and storage

- Handling** : Dust explosion hazards: During the routine handling of this material there should be little risk of a dust explosion. There are indications that an explosive dust mixture can develop. Therefore, appropriate prevention measures should be taken. If a large dust cloud develops, turn off any device that may cause spark and leave the area until the cloud dissipates.
- Storage** : Keep locked up Keep container tightly closed. Keep only in the original container in a cool, well ventilated place. Keep container dry . Keep away from Strong bases .
- Packing** : Laminated bags, polyester + aluminium + polyethylene - boxes .
Woven polypropylene bags with multi-ply paper inserts and polyethylene lining .

SECTION 8. Exposure controls/personal protection

- TLV[©] -TWA [mg/m³]** : Azinphos-methyl (USA) : 0.2, A4 skin (1996)
- : Ventilation required. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower . Wash hands thoroughly after handling. Wash clothing before re-using. Discard contaminated leather articles.
- Personal protection**
- **Respiratory protection** : During spraying wear suitable respiratory equipment.
 - **Hand protection** : Wear suitable gloves.
 - **Skin protection** : Wear suitable protective clothing
 - **Eye protection** : Chemical goggles or face shield.

SECTION 9. Physical and chemical properties

- Physical state at 20 °C** : Amorphous powder
- Colour** : Off-white
- Odour** : Faint characteristic
- Melting point [°C]** : Azinphos-methyl :72 - 74 (Pure)
- Flash point [°C]** : Not applicable
- Vapour pressure [20°C]** : Azinphos-methyl : 0.18 mPa (20°C- Pure)
- Solubility in water** : Azinphos-methyl : 25.9 mg/l (25 °C- Pure)
- Explosion limits** : May be explosive after prolonged heating above 75°C

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Azinphos 350 WP**R-7566****SECTION 10. Stability and reactivity**

- Chemical stability** : Stable under normal conditions.
Decomposes at elevated temperatures .
- Hazardous decomposition products** : Thermal decomposition may generate : carbon dioxide , carbon monoxide , nitrogen oxides , phosphorus oxides , sulfur oxide .
- Hazardous polymerization** : Will not occur.
- Conditions to avoid** : Protect from sunlight and excessive heat . Avoid temperatures above 40 °C .

SECTION 11. Toxicological information

- Toxicity information** : No toxicological information is known on the product.
- Rat oral LD50 [mg/kg] : Calculated : 22
- Dermal, Rat LD50 [mg/kg] : Cotnion-methyl Tech: > 2000
- Dermal irritation (rabbit)** : Cotnion-methyl 50 WP : Not irritating
- Eyes irritation (rabbit)** : Cotnion-methyl 25 WP : Not irritating
- Sensitization** : Guinea pig maximization test: Cotnion-methyl Tech : Non sensitizer
- Mutagenicity** : Cotnion-methyl Tech: Not mutagenic
- Carcinogenicity** : Cotnion-methyl Tech: Not carcinogenic
- Rat inhalation LC50 [mg/kg] : Cotnion-methyl Tech: 0.21
- Toxic for reproduction : Fertility** : Cotnion-methyl Tech: Not teratogenic in animal experiments

SECTION 12. Ecological information

- Ecological effects information** : The data below are for Azinphos-methyl :
- LC50 96 Hour - fish [ppm]** : 0.014
- LD50 Birds [mg/kg]** : 136 (Mallard duck)
- Persistence - degradability** : Half-life time (t1/2) = 21 - 68 days.
- Mobility** : Low mobility
- Bioaccumulative potential** : Azinphos-methyl Does not bioaccumulate in aquatic organisms .

SECTION 13. Disposal considerations



- General** : Avoid release to the environment.
Dispose in a safe manner in accordance with local/national regulations.

SECTION 14. Transport information

- UN N°** : 2783
- Proper shipping name** : ORGANOPHOSPHORUS PESTICIDE, SOLID, TOXIC (AZINPHOS-METHYL 35%)
- H.I. no : 60
- IMO-IMDG - class or division : 6.1
- Packing group : II
- IMDG-Marine pollution : Marine pollutant - Polluant marin

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SECTION 15. Regulatory information

- EU Classification** : This product is provisionally labelled by the supplier in accordance with the suppliers understanding of the EU regulations :
- Symbol(s)**  
- R Phrase(s)** : T+: T : Toxic
N: N : Dangerous for the environment.
- S Phrase(s)** : R26/28 - Very toxic by inhalation and if swallowed.
R43 - May cause sensitization by skin contact.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- S Phrase(s)** : S01/02 - Keep locked up and out of reach of children.
S13 - Keep away from food, drink and animal feedingstuffs.
S20/21 - When using, do not eat, drink or smoke.
S24 - Avoid contact with skin.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).
S37 - Wear suitable gloves.
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

SECTION 16. Other information

- List of relevant R phrases (heading 3)* : R24 - Toxic in contact with skin.
R26/28 - Very toxic by inhalation and if swallowed.
R43 - May cause sensitization by skin contact.
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Print date** : 21 / 5 / 2014
- Recommended uses and restrictions** : Dust explosion hazards .
Prevent heating of material .
- Further information** : None.

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