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MATERIAL SAFETY DATA SHEET

Revised edition no: 5

Date: 4/12/2020

Supersedes: 19/5/2014

AZINPHOS 200 SC

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

Trade name : Azinphos 200 SC
Substance name : Azinphos-methyl : O,O-Diethyl 4-oxobenzotriazin-3-ylmethyl phosphorodithioate
Product code : R-6624.DPD
Chemical formula : Azinphos-methyl : C₁₀H₁₂N₃O₃PS₂
Relevant identified uses : Insecticide
Company identification : ADAMA SOUTH AFRICA (PTY) LTD
Ground Floor, Simeka House
The Vineyards Office Estate
99 Jip de Jager Drive
Bellville, 7530

For further information, please contact

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SECTION 2. Hazards identification

Classification (Directive 67/548/EEC - 1999/45/EC) : THIS COMPOUND INHIBITS CHOLINESTERASE.
Human health hazards : 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

SECTION 5. Fire-fighting measures

Suitable extinguishing media : For small fire : dry chemical , carbon dioxide .
For large fire : water spray , alcohol resistant foam .

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Specific hazards : Thermal decomposition may generate : carbon dioxide , carbon monoxide , nitrogen oxides , hydrogen chloride , sulfur oxide , phosphorus oxides .

Protection against fire : Wear proper protective equipment. 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
Dispose in a safe manner in accordance with local/national regulations. If the product has contaminated surface water, inform the appropriate authorities. Contaminated soil layers have to be dug out.

Clean up methods : In the event of minor spillage: Absorb in sand or other inert material . Use appropriate container to avoid environmental contamination.
In the event of major spillage: Collect and contain as much free liquid as possible. Dike spills using absorbent or impervious materials such as sand or clay for later disposal.

SECTION 7. Handling and storage

Handling : Do not breath fumes . Avoid contact with skin and eyes.

Storage : Keep locked up. Keep only in the original container in a cool, well ventilated place. Keep away from strong bases and heat .
Avoid storing the containers in large blocks. Restrict height of the stacks to allow aeration, heat dissipation, inspection and fire-fighting operations.
Avoid storing for long periods and never more than two years.

Packing : Fluorinated or coextruded polyethylene containers . Resin-lined metal drums .

SECTION 8. Exposure controls/personal protection

TLV[®] -TWA [mg/m³] : Azinphos-methyl (USA) : 0.2, A4 skin (1996)
Azinphos-methyl PEL (OSHA): 0.2

: Ventilation required. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower . Wash clothing before re-using. Wash hands thoroughly after handling.

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 safety glasses.

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SECTION 9. Physical and chemical properties

Physical state at 20 °C	: Liquid
Colour	: Brownish
Odour	: characteristic
pH value	: 6 - 7.5
Melting point [°C]	: Azinphos-methyl : 72 - 74 (Pure)
Flash point [°C]	: > 93
Vapour pressure [20°C]	: Azinphos-methyl : 0.18 mPa (20°C - Pure)
Specific gravity	: 1.09-1.10
Solubility in water	: Dispersible
Explosion limits	: May be explosive after prolonged heating above 75°C .

SECTION 10. Stability and reactivity

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

SECTION 11. Toxicological information

- Rat oral LD50 [mg/kg]	: 88
- Dermal, Rat LD50 [mg/kg]	: > 2000
- Rat inhalation LC50 [mg/l/4h]	: >1.26 (M), 0.52 (F)
Dermal irritation (rabbit)	: Slight irritant
Eyes irritation (rabbit)	: Mildly irritating
Sensitization	: Guinea pig maximization test: sensitizer
Mutagenicity	: Azinphos-methyl : Not mutagenic
Carcinogenicity	: Azinphos-methyl : Not carcinogenic
Toxic for reproduction : Fertility	: Azinphos-methyl : Not teratogenic in animal experiments

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SECTION 12. Ecological information

96 H-LC50 - Rainbow trout [mg/l]	: 0.0076
48 H-LC50-Daphnia magna [mg/l]	: 0.0048
72 H-EbC50 - Algae [mg/l]	: 1.9
72 H-ErC50 - Algae [mg/l]	: 3.4

SECTION 13. Disposal considerations

General : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14. Transport information

UN N°	: 3018
Proper shipping name	: ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC (200 g/l AZINPHOS-METHYL)
- H.I. no	: 60
- IMO-IMDG - class or division	: 6.1
- Packing group	: III
- IMDG-Marine pollution	: Marine pollutant - Polluant marin

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)



: T: T : Toxic
N: N : Dangerous for the environment.

R Phrase(s)

: R23/25 - 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.



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S Phrase(s)

: S02 - Keep out of the reach of children.
S13 - Keep away from food, drink and animal feedingstuffs.
S20/21 - When using, do not eat, drink or smoke.
S23 - Do not breathe gas/fumes/vapour/spray.
S24/25 - Avoid contact with skin and eyes.
S36/37 - Wear suitable protective clothing and gloves.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).
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.

Further information

: None.

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