

**SAFETY DATA SHEET**  
**EU Regulation No. 1907/2006,**  
**Annex II**

Page : 1

Revised edition no : 1

Date : 12 / 2 / 2013

Supersedes : 12 / 2 / 2013

**Magnate 750 SG**

**R-10496-GR**

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

**1.1. Product identifier**

Trade name : Magnate 750 SG  
Chemical formula : C<sub>14</sub>H<sub>16</sub>C<sub>12</sub>N<sub>2</sub>O<sub>5</sub>S  
1-[2-(Allyloxy)ethyl-2-(2,4-dichlorophenyl)]-1H-imidazolium hydrogen sulphate

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses : Fungicide  
Uses advised against : None under normal conditions.

**1.3. Details of the supplier of the safety data sheet**

Email : msds@mcw.co.il  
: ADAMA SOUTH AFRICA (PTY) LTD  
21 Viben Street  
Brackenfell 7560

**1.4. Emergency telephone number**

Phone nr : +27 82 331 6463  
+27 21 982 1460

**SECTION 2. Hazards identification**

**2.1. Classification of the substance or mixture**

Classification 67/548/EEC (DSD) - 1999/45/EC (DPD)

: Xn; R22  
R43  
N; R50-53

**2.2. Label elements**

Labelling 1999/45/EC (DPD)

Symbol(s)



R Phrase(s)

S Phrase(s)

: Xn : Harmful.  
N : Dangerous for the environment.  
: R22 - Harmful 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.  
: S24/25 - Avoid contact with skin and eyes.  
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37 - Wear suitable gloves.  
S39 - Wear eye/face protection.  
S46 - If swallowed seek medical advice immediately and show this container or label.  
S60 - This material and its container must be disposed of as hazardous waste.  
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

**2.3. Other hazards**

Other hazards : None under normal conditions.

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**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
Imazalil sulphate	99 %	58594-72-2	261-351-5	613-043-00-0	----	Xn; R22 R43 N; R50-53 ----- Acute Tox. 4 - H302 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

Text of R/H-Phrases - Sec. 16

**SECTION 4. First aid measures**

**4.1. Description of first aid measures**

**First aid measures**

- Inhalation** : Remove victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention. Keep victim warm and at rest.
- Skin contact** : Remove affected clothing and wash all exposed skin area with soap and water, followed by warm water rinse.  
Consult a doctor in the event of any complaints.
- Eye contact** : Wash off with plenty of water . If pain persists, consult an eye specialist.
- Ingestion** : Never give anything by mouth to an unconscious person. Wash out mouth with plenty of water. Immediately get medical attention.  
Do not induce vomiting.

**4.2. Most important symptoms and effects, both acute and delayed**

- :  
Inhalation may cause lung irritation and lung oedema.
- Eye contact** : Redness , tears .

**4.3. Indication of any immediate medical attention and special treatment needed**

- : Individuals with allergy history or pre-existing dermatitis, should take extra care in handling this product.
- Note to physician** : No specific antidote known. Treat symptomatically and give supportive therapy.  
If ingested perform gastric lavage and administer activated charcoal.  
Aqueous solution is a Corrosive Acid .

**SECTION 5. Fire-fighting measures**

**5.1. Extinguishing media**

- Suitable extinguishing media** : For small fire : dry chemical , carbon dioxide .  
For large fire: water spray , water fog , foam .

**5.2. Special hazards arising from the substance or mixture**

- Specific hazards** : Thermal decomposition may generate : sulfur dioxide , nitrogen oxides , carbon monoxide , carbon dioxide , hydrogen chloride , fluorides .

**5.3. Advice for fire-fighters**

- Personal precautions** : Aqueous solution is a Corrosive Acid .
- 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.

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**SECTION 6. Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

For emergency responders : Use appropriate protection (see section 8).

**6.2. Environmental precautions**

Environmental precautions : Dispose of this material and its container at hazardous or special waste collection point. If the product has contaminated surface water, inform the appropriate authorities.

**6.3. Methods and material for containment and cleaning up**

Clean up methods : Collect spilled material with shovel, place into a clean container and cover container loosely .  
Keep away from: water .

**6.4. Reference to other sections**

**SECTION 7. Handling and storage**

**7.1. Precautions for safe handling**

Handling : Avoid contact with skin and eyes.

**7.2. Conditions for safe storage, including any incompatibilities**

Packing : Fiber drums . Polyethylene cans .

Storage : Keep locked up . Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place (<50 °C ). Keep container dry. Avoid humidity and contact with water .

**7.3. Specific end use(s)**

**SECTION 8. Exposure controls/personal protection**

**8.1. Control parameters**

TLV© -TWA [mg/m<sup>3</sup>] : (USA) Imazalil sulphate: Not established

Other information : Aqueous solution is a Corrosive Acid .

**8.2. Exposure controls**

: 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.

**SECTION 9. Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Appearance : Granules

Colour : Off-white

Odour : Odourless

Odour threshold : Not available

pH : 1 - 2.5 ( aqueous solution )

Melting point / Freezing point : 132 - 134

Initial boiling point - boiling range : Not applicable

Flash point : 120 ( Closed cup )

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**SECTION 9. Physical and chemical properties (continued)**

Evaporation rate	: Not available
Flammability	: Not flammable
Explosion limits (lower - upper)	: Not available
Vapour pressure	: (10)-7 (20°C)
Vapour density	: Not available
Relative density	: Not available
Solubility	: Freely soluble
Partition coefficient : n-octanol / water	: Imazalil : 4.03
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
Viscosity	: Not applicable
Explosive Properties	: Not available
Oxidising properties	: Not available

**9.2. Other information**

Molecular weight	: 395.2
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**SECTION 10. Stability and reactivity**

**10.1. Reactivity**

**10.2. Chemical stability**

Chemical stability	: Stable under normal dry conditions.
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**10.3. Possibility of hazardous reactions**

Hazardous reactions	: Avoid contact with : strong acids , strong bases .
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**10.4. Conditions to avoid**

Conditions to avoid	: Protect from sunlight , humidity , water , open flame and heat . Decomposes upon heating.
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**10.5. Incompatible materials**

**10.6. Hazardous decomposition products**

Hazardous decomposition products	: sulfur oxide , nitrogen oxides , carbon monoxide , carbon dioxide , hydrogen chloride , chlorides .
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**SECTION 11. Toxicological information**

**11.1. Information on toxicological effects**

• Acute toxicity	
- Oral, Rat LD50 (mg/kg)	: 384
- Dermal, Rat LD50 [mg/kg]	: >2000
- Inhalation, Rat LC50 [mg/l/4h]	: > 2.18 Maximum concentration attainable ( Not adequate for classification. )
• Skin corrosion/irritation	: Irritating to skin. Note however, that the in-use aqueous formulation (0.1% maximum concentration) is not irritating to the skin
• Serious eye damage/irritation	: Risk of serious damage to eyes. Note however, that the in-use aqueous formulation (0.1% maximum concentration) is not irritating to the eyes
• Respiratory or skin sensitisation	: Guinea pig maximization test: Sensitizer
• Germ cell mutagenicity	: Imazalil : Not mutagenic
• Carcinogenicity	: Imazalil : Not carcinogenic
• Reproductive toxicity	: Imazalil : Not teratogenic in animal experiments

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**SECTION 11. Toxicological information (continued)**

- STOT-single exposure : Not available
- STOT-repeated exposure : Not available
- Aspiration hazard : Not available

**SECTION 12. Ecological information**

**12.1. Toxicity**

Ecological effects information : The data below are for Magnate technical:

**Acute toxicity**

- 96 H-LC50 - Rainbow trout [mg/l] : 1.48
- 48 H-EC50 - Daphnia magna [mg/l] : 3.5
- 72 H-EC50 - Algae [mg/l] : 0.87
- LD50 Birds [mg/kg] : > 2000

**Long-term exposure**

**12.2. Persistence - degradability**

**12.3. Bioaccumulative potential**

**12.4. Mobility in soil**

Mobility : Product does not leach to ground water.

**12.5. Results of PBT and vPvB assessment**

: Not available

**12.6. Other adverse effects**

: None known.

**SECTION 13. Disposal considerations**

**13.1. Waste treatment methods**

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

**SECTION 14. Transport information**

**14.1. UN number**

UN N° : 3077

Hazard Label(s)



**14.2. UN proper shipping name**

- Land transport - ADR/RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (99% Imazalil sulphate)
- Sea transport - IMO-IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (99% Imazalil sulphate)
- Air transport - ICAO/IATA : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (99% Imazalil sulphate)

**14.3. Transport hazard class(es)**

- Land transport - ADR/RID : 9

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**SECTION 14. Transport information (continued)**

- Sea transport - IMO-IMDG : 9
- Air transport - ICAO/IATA : 9

**14.4. Packing group**

- Land transport - ADR/RID : III
- Sea transport - IMO-IMDG : III
- Air transport - ICAO/IATA : III

**14.5. Environmental hazards**

- IMDG-Marine pollution : Marine pollutant - Polluant marin

**14.6. Special precautions for user**

: See transport documents.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

: Not applicable.

**SECTION 15. Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

: Ensure all national/local regulations are observed.

**15.2. Chemical Safety Assessment**

: Not applicable

**SECTION 16. Other information**

List of relevant R phrases (heading 3) : R22 - Harmful 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.

List of relevant H phrases (Section 3) : H302 - Harmful if swallowed.  
H317 - May cause an allergic skin reaction.  
H400 - Very toxic to aquatic life.  
H410 - Very toxic to aquatic life with long lasting effects.

Print date : 22 / 5 / 2014

Recommended uses and restrictions : None.

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