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

1.1. Product identifier

Trade name : AGIL 100 EC

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

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

1.3. Details of the supplier of the safety data sheet

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

1.4. Emergency telephone number

+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)

: Repr. Cat. 2; R61
Xi; R36/38
N; R51-53

2.2. Label elements

Labelling 1999/45/EC (DPD)

Symbol(s)

: T : Toxic
N : Dangerous for the environment.

R Phrase(s)

: R36/38 - Irritating to eyes and skin.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R61 - May cause harm to the unborn child.

S Phrase(s)

: S02 - Keep out of the reach of children.
S13 - Keep away from food, drink and animal feedingstuffs.
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.
S29/35 - Do not empty into drains; dispose of this material and its container in a safe way.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.
S46 - If swallowed seek medical advice immediately and show this container or label.
S53 - Avoid exposure - obtain special instructions before use.
S57 - Use appropriate container to avoid environmental contamination.
S60 - This material and its container must be disposed of as hazardous waste.

2.3. Other hazards

Other hazards : None under normal conditions.
SECTION 3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Concentration % w/w</th>
<th>CAS No</th>
<th>EC No</th>
<th>Index No</th>
<th>REACH Reg.</th>
<th>Classification</th>
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<tbody>
<tr>
<td>Propaquizafop</td>
<td>9.1 - 10.3%</td>
<td>111479-05-1</td>
<td>...</td>
<td>...</td>
<td>R43</td>
<td>Skin Sens. 1 - H317</td>
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<td></td>
<td></td>
<td>N; R50-53</td>
<td>Aquatic Acute 1 - H400</td>
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<td>Aquatic Chronic 1 - H410</td>
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<tr>
<td>N-methyl-2-pyridone</td>
<td>9 - 16%</td>
<td>872-50-4</td>
<td>212-628-1</td>
<td>656-021-00-7</td>
<td>R61</td>
<td>Rep. Cat. 2; R61</td>
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<td></td>
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<td>Xi; R26/27/38</td>
<td>Eye Irrit 2; H319</td>
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<td></td>
<td></td>
<td>Xi; R41</td>
<td>Skin Irrit. 2; H315</td>
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<td>STOT SE 3; H305</td>
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<td>Poly(oxy-1,2-ethanediyl),alpha-isotridecyl-omega-hydroxy-</td>
<td>30 - 40%</td>
<td>9043-30-5</td>
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<td>...</td>
<td>R22</td>
<td>Eye Dam 1; H318</td>
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<td>Xi; R41</td>
<td>Acute Tox. 4; H302</td>
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<td>Hydrocarbons, C10-C13, aromatics, &lt; 1% naphthalene</td>
<td>35 - 42%</td>
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<td>922-153-0</td>
<td>...</td>
<td>R65</td>
<td>Aap. Tox 1; H304</td>
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<td>R61-53</td>
<td>Aquatic Chronic 2; H411</td>
</tr>
</tbody>
</table>

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 breathing is difficult: artificial respiration. Get medical attention.
- Skin contact: Remove contaminated clothing and shoes. Wash away remainder with plenty of water.
- Eye contact: Wash out with plenty of water with the eyelid held wide open. Get medical attention.
- Ingestion: Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

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

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

Note to physician: No specific antidote known. Treat symptomatically and give supportive therapy.
Protection of first-aiders: Use appropriate protection (see section 8).

SECTION 5. Fire-fighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Specific hazards: Flashback may occur along vapour trail.
Hazardous decomposition products: Chloride compounds carbon oxides (CO, CO2) sulfur oxides, nitrogen oxides.

5.3. Advice for fire-fighters

Protection against fire: Self-contained breathing apparatus and total protection required in enclosed areas.
SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders: Wear suitable protective clothing, gloves and eye/face protection.

6.2. Environmental precautions

Environmental precautions: Do not empty into drains. Do not discharge into the environment.

6.3. Methods and material for containment and cleaning up

Clean up methods: Absorb in sand or other inert material. Collect spills and put it into appropriated container. Dispose of this material and its container at hazardous or special waste collection point.

6.4. Reference to other sections

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Handling: Ventilation required.

7.2. Conditions for safe storage, including any incompatibilities

Storage: Keep in original containers. Avoid all possible sources of ignition (spark or flame). Keep away from food, drink and animal feeding stuffs. Store in dry, well-ventilated area.

7.3. Specific end use(s)

Precautions in handling and storage: Handle in accordance with good industrial hygiene and safety procedures.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

TLV©: N-Methyl-2-pyrrolidone: 25 ppm

Ventilation required.

8.2. Exposure controls

Propaquizafop: Data not available.

Personal protection
- Respiratory protection: Wear suitable respiratory equipment.
- Hand protection: Wear suitable gloves.
- Skin protection: Wear suitable protective clothing. Wear safety boots.
- Eye protection: Chemical goggles or safety glasses.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance
- Physical state at 20 °C: Liquid
- Colour: Yellow - Brown
- Odour: Aromatic
- Odour threshold: Not available
- pH: 5-8 (5%-water)
- Melting point / Freezing point: Not applicable
- Initial boiling point - boiling range: Not available

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SECTION 9. Physical and chemical properties  

Flash point: 101 °C
Evaporation rate: Not available
Flammability: Not applicable for liquids
Explosion limits (lower - upper): Not available
Vapour pressure: Not applicable
Vapour density: Not available
Relative density: 1.01-1.04 (20°C)
Solubility: Not applicable
Partition coefficient : n-octanol / water: 4.78 (25°C) (Propaquizafop)
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: 9.25 mPa*S (40 °C)

9.2. Other information

Surface tension mN/m: 33.5-35.3 (20 °C)

SECTION 10. Stability and reactivity

10.1. Reactivity
Stable under normal conditions.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur

10.4. Conditions to avoid
Avoid all possible sources of ignition (spark or flame).

10.5. Incompatible materials
Materials to avoid: oxidizing agents, acids, alkali.

10.6. Hazardous decomposition products
Hazardous decomposition products: Chloride compounds, carbon oxides (CO, CO2) nitrogen oxides

SECTION 11. Toxicological information

11.1. Information on toxicological effects

- Acute toxicity
  - Oral, Rat LD50 (mg/kg): > 2,000
  - Dermal, Rat LD50 [mg/kg]: > 2,000
  - Inhalation, Rat LC50 [mg/l/4h]: > 5.35
- Skin corrosion/irritation: Irritating
- Serious eye damage/irritation: Irritating
- Respiratory or skin sensitisation: Non sensitizer
- Germ cell mutagenicity: Not mutagenic (Propaquizafop)
- Carcinogenicity: Not classified (Propaquizafop)
SECTION 11. Toxicological information (continued)

- Reproductive toxicity: Not considered to be toxic for the reproductive system. (Propaquizafop)
  May cause harm to the unborn child (N-Methyl-pyrrolidone)

- STOT-single exposure: Not available

- STOT-repeated exposure: Not available

- Aspiration hazard: Not available

SECTION 12. Ecological information

12.1. Toxicity

Acute toxicity

96 H-LC50 - Rainbow trout [mg/l]: 3.2
48 H-EC50 - Daphnia magna [mg/l]: 2.4
72 H-EC50 - Algae [mg/l]: 1.2
Bees LD50 [µg]: Not toxic to bees
LD50 Birds [mg/kg]: Japanese quail >2,000

12.2. Persistence - degradability

Persistence - degradability: Propaquizafop: Soil:
The product is not persistent.
Half-life time (t1/2): 15-26 days
Propaquizafop: Water:
Half-life time (t1/2) (Water/sediment) <1 day;
(Major metabolites): 27-39 days

12.3. Bioaccumulative potential

12.4. Mobility in soil

Mobility: Propaquizafop: Soil:
Low risk of underground water contamination.
Moderately mobile

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

: None known.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

General: Dispose of in a pesticide approved landfill, or in a chemical incinerator equipped with scrubbers. Dispose in a safe manner in accordance with local/national regulations.

SECTION 14. Transport information

14.1. UN number

UN N°: 3082
Hazard Label(s)
SECTION 14. Transport information (continued)

14.2. UN proper shipping name

- Land transport - ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Propaquizafop, Hydrocarbons, C10-C13), 9, III
  Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Propaquizafop, Hydrocarbons, C10-C13), 9, III
  - H.I. no: 90
- Sea transport - IMO-IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Propaquizafop, Hydrocarbons, C10-C13), 9, III
- Air transport - ICAO/IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Propaquizafop, Hydrocarbons, C10-C13), 9, III

14.3. Transport hazard class(es)

- Land transport - ADR/RID: 9
- Sea transport - IMO-IMDG: 9
  - IMO-IMDG - class or division: 9
- Air transport - ICAO/IATA: 9

14.4. Packing group

- Land transport - ADR/RID: III
  - Packing group: 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.
  R36/37/38 - Irritating to eyes, respiratory system and skin.
  R41 - Risk of serious damage to eyes.
  R43 - May cause sensitization by skin contact.
  R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
  R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
  R61 - May cause harm to the unborn child.
  R65 - Harmful : may cause lung damage if swallowed.
  R66 - Repeated exposure may cause skin dryness or cracking.

List of relevant H phrases (Section 3)

: EUH066 - Repeated exposure may cause skin dryness or cracking.
  H302 - Harmful if swallowed.
  H304 - May be fatal if swallowed and enters airways.
  H315 - Causes skin irritation.
  H317 - May cause an allergic skin reaction.
  H318 - Causes serious eye damage.
SECTION 16. Other information (continued)

H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H360D - May damage the unborn child.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.
H411 - Toxic to aquatic life with long lasting effects.

Print date: 25/6/2014

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