



MATERIAL SAFETY DATA SHEET

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Revised edition no : 1

Date : 12 / 1 / 2012

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AGIL 100 EC**H-0198-29933**

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

Trade name : AGIL 100 EC
Relevant identified uses : Herbicide
Substance name : Propaquizafop: 2-isopropylideneamino-oxyethyl (R)-2-[4-(6-chloroquinoxalin-2-yloxy)phenoxy] propionate
Product code : AG-P6-100 EC
Company identification : Agan Chemical Manufacturers Ltd.
P.O.B. 262
ASHDOD Israel
Phone nr : +972-8-8515211

SECTION 2. Hazards identification

Human health hazards : Irritating to eyes.
Environmental hazard : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 3. Composition/information on ingredients

Substance name	Concentration % w/w	CAS No	EC No	Index No	REACH Reg.	Classification
Propaquizafop	9.1 - 10.3 %	111479-05-1	-----	-----	----	R43 N; R50-53
Poly(oxy-1,2-ethanediyl),alpha-isotridecyl-omega-hydroxy-	30 - 40 %	9043-30-5	-----	-----	----	Xn; R22 Xi; R41
1,2-Propanediol carbonate	9 - 10 %	108-32-7	203-572-1	607-194-00-1	----	Xi; R36
Solvent Naphtha (petroleum) heavy aroma	35 - 42 %	64742-94-5	265-198-5	-----	----	Xn; R65

SECTION 4. 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 for at least 15 minutes. Get medical attention.
Ingestion : Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.
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

Suitable extinguishing media : For small fire : dry chemical powder , water spray carbon dioxide
For large fire : foam , water fog , water spray.
Specific hazards : Flashback may occur along vapour trail.
Protection against fire : Self-contained breathing apparatus and total protection required in enclosed areas.
Hazardous decomposition products : Chloride compounds carbon oxides (CO, CO2) sulfur oxides , nitrogen oxides



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SECTION 6. Accidental release measures

- For emergency responders** : Wear suitable protective clothing, gloves and eye/face protection.
Environmental precautions : Do not empty into drains Do not discharge into the environment.
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.

SECTION 7. Handling and storage

- Handling** : Ventilation required.
Storage : Keep in original containers. Keep away from food, drink and animal feeding stuffs. Store in dry, well-ventilated area.
Precautions in handling and storage : Handle in accordance with good industrial hygiene and safety procedures.

SECTION 8. Exposure controls/personal protection

- TLV - ACGIH [mg/m³]** : Ventilation required.
: **Solvent Naphta: 52 or 10 ppm**
Propaquizafop: Data not available.
: Wash hands thoroughly after handling. When using do not eat, drink or smoke. Wash clothing before re-using.
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

- Physical state at 20 °C** : Liquid
Colour : Yellow - Orange
Odour : Aromatic
pH value : 5-8 (1%-water)
Melting point [°C] : 66.3 (Propaquizafop)
Flash point [°C] : >79
Vapour pressure [mPa] : 4.4 e-7 @25 °C (Propaquizafop)
Flammability : Not flammable
Density [g/ml] : 1.04 ± 0.015 @ 20°C
Solubility in water : Miscible
Log P octanol / water at 20°C : 4.78@ 25 °C (Propaquizafop)
Auto-ignition temperature [°C] : 354
Surface tension mN/m : 34.1 @ 25 °C
Explosive Properties : Not explosive
Oxidising properties : Not oxidizing



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SECTION 10. Stability and reactivity

- Stability** : Stable under normal conditions.
Hazardous decomposition products : Chloride compounds , carbon oxides (CO, CO2) nitrogen oxides
Hazardous polymerization : Will not occur.
Materials to avoid : oxidizing agents , acids , alkali .

SECTION 11. Toxicological information

- On product**
- Rat oral LD50 [mg/kg] : >2,000
- Dermal, Rat LD50 [mg/kg] : >2,000
- Rat inhalation LC50 [mg/l/4h] : 5
Dermal irritation (rabbit) : Not irritant
Eyes irritation (rabbit) : Irritating
Sensitization : Non sensitizer
Carcinogenicity : Not carcinogenic
Mutagenicity : Propaquizafop: Not mutagenic
Toxic for reproduction : Propaquizafop: Not considered to be toxic for the reproductive system.

SECTION 12. Ecological information

- On product**
96 H-LC50 - Rainbow trout [mg/l] : 6.53
48 H-EC50 - Daphnia magna [mg/l] : 12.9
72 H-EC50 - Algae [mg/l] : 2.99
LD50 Birds [mg/kg] : Propaquizafop: Japanese quail >2,000
Bees LD50 [µg] : Propaquizafop: Not toxic to bees
Persistence - degradability : The product is not persistent.
: **Propaquizafop: Soil :**
: Half-life time (t1/2) : 15-26 days
: **Propaquizafop: Water :**
: Half-life time (t1/2) (Water/sediment) <1 day;
(Major metabolites): 27-39 days
Mobility : **Propaquizafop: Soil :**
: Moderately mobile
: Low risk of underground water contamination.

SECTION 13. Disposal considerations

- 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.



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SECTION 14. Transport information

UN N° : 3082
- IMO-IMDG - class or division : 9
- IMDG-Marine pollution : Marine pollutant - Polluant marin

SECTION 15. Regulatory information

EU Classification : According to Commission Directive 67/548/EEC, 1999/45/EC and its amendments

Symbol(s)



R Phrase(s) : Xi : Irritant
N : Dangerous for the environment.
R36 - Irritating to eyes.
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.
S46 - If swallowed seek medical advice immediately and show this container or label.
S57 - Use appropriate container to avoid environmental contamination.
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

SECTION 16. Other information

List of relevant R phrases (heading 3) : R22 - Harmful if swallowed.
R36 - Irritating to eyes.
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.
R65 - Harmful : may cause lung damage if swallowed.

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