



MAKHTESHIM  
CHEMICAL WORKS LTD.

## MATERIAL SAFETY DATA SHEET

Page : 1 of 4

Revised edition no : 1

Date : 23/2/2005

Supersedes : 0/0/0

# MASTER QUICK ZC

R-17558.NPF

### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Trade name : MASTER QUICK ZC  
Description : NPE Free  
Chemical formula : Chlorpyrifos : C<sub>9</sub>H<sub>11</sub>Cl<sub>3</sub>NO<sub>3</sub>PS  
Deltamethrin : C<sub>22</sub>H<sub>19</sub>Br<sub>2</sub>NO<sub>3</sub>  
Use : Insecticide  
Company Identification : Makhteshim Chemical Works Ltd.  
PO Box 60  
Beer Sheva 84100 Israel.  
Fax : +972-8-6296848  
Emergency phone nr : +972-3-6106666 Subscription no. 36789 (Makhteshim)

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

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

Substance name	Value(s)	CAS No	EC No	Index No	Classification
Chlorpyrifos (ISO)	ca 23 %	2921-88-2	220-864-4	015-084-00-4	T; R24/25 N; R50-53
Deltamethrin (ISO)	ca 1 %	52918-63-6	258-256-6	---	T; R23/25 N; R50-53
Polyalkyleneoxide heptamethyltrisiloxane	ca 2 %	27306-78-1	---	---	Xn; R20-48/20 Xi; R36 N; R51-53

### 3. HAZARDS IDENTIFICATION

Main hazards : THIS COMPOUND INHIBITS CHOLINESTERASE.  
Human Health Hazards : May cause sensitization by skin contact.  
Environmental hazard : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 4. FIRST AID MEASURES

First aid  
Inhalation : Remove victim to fresh air. Keep victim warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediately get medical attention.  
Ingestion : Do not induce vomiting. Wash out mouth with plenty of water. Never give anything by mouth to an unconscious person. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediately get medical attention.  
Skin contact : After contact with skin first remove with a dry cloth and then wash the skin with plenty of water. Seek medical advice.  
Eye contact : Wash off with plenty of water. Immediately consult an eye specialist.  
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.

### 5. FIRE-FIGHTING MEASURES

Extinguishing media : For small fire : dry chemical , carbon dioxide .  
For large fire: water spray , alcohol resistant foam .  
Special procedures : Fight fires from a protected location . Dike fire control water for later disposal.  
Keep container cool by spraying with water .



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### 5. FIRE-FIGHTING MEASURES (continued)

- Special exposure hazards** : Thermal decomposition generates : carbon monoxide , carbon dioxide , hydrogen chloride , sulfur oxide , nitrogen oxides , phosphorus oxides , bromides , chlorides , sulfides .
- Protection against fire** : Wear proper protective equipment. Use self-contained breathing apparatus when in close proximity to fire.

### 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : 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. Contaminated soil layers have to be dug out.
- After spillage and/or leakage** : 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.

### 7. HANDLING AND STORAGE

- Handling** : Do not breathe fumes . Avoid contact with skin and eyes.
- Storage** : Keep locked up. Keep container tightly closed. Keep only in the original container in a cool, well ventilated place. Keep away from strong bases .
- Packing** : Multi-layer high density polyethylene extrusion blow containers  
Drums with polyethylene liner.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Industrial hygiene** : 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.
- Occupational Exposure Limits**  
**TLV [mg/m<sup>3</sup>]** : (USA) Chlorpyrifos : 0.2 mg/m<sup>3</sup>, A4 skin (1999).  
Deltamethrin : Not established
- Personal protection**
- Respiratory protection : During spraying wear suitable respiratory equipment.
  - Skin protection : Wear protective clothing
  - Hand protection : Wear suitable gloves.
  - Eye protection : Chemical goggles or safety glasses.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Physical state** : Liquid
- Colour** : White
- Odour** : Odourless
- pH value** : 4.0-6.0
- Specific gravity** : 1.08-1.10 (20°C)
- Decomposition point [°C]** : Chlorpyrifos : Above 160°C (Pure)
- Solubility in water** : Chlorpyrifos : 2.4 ppm (25°C)
- Flash point [°C]** : > 79 ( Closed cup )





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### 14. TRANSPORT INFORMATION (continued)

- ADR class : 9
- ADR Packing group : III
- IMDG-Marine pollution : Yes

### 15. REGULATORY INFORMATION

EU Classification : This product is provisionally labelled by the supplier in accordance to the EU regulations;

Symbol(s)



: Xi: Irritant  
N: Dangerous for the environment.

R Phrase(s)

: R43 - May cause sensitization by skin contact.  
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.  
S20/21 - When using, do not eat, drink or smoke.  
S24 - Avoid contact with skin.  
S37 - Wear suitable gloves.  
S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

### 16. OTHER INFORMATION

Recommended uses and restrictions : None.

Text of R-phrases in heading 2

: R20 - Harmful by inhalation.  
R23/25 - Toxic by inhalation and if swallowed.  
R24/25 - Toxic in contact with skin and if swallowed.  
R36 - Irritating to eyes.  
R48/20 - Harmful : danger of serious damage to health by prolonged exposure through inhalation.  
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.

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