

MATERIAL SAFETY DATA SHEET

PYRINEX 48 EC

First-aid measures

- Inhalation** : Remove victim to fresh air. Keep victim warm and at rest.
If breathing is difficult: give oxygen.
If not breathing: apply artificial respiration.
Immediately get medical attention.
- Ingestion** : Induce vomiting only if victim is conscious. Never give anything by mouth to an unconscious person. Wash out mouth with water.
If breathing is difficult: give oxygen.
If not breathing: apply artificial respiration.
Immediately get medical attention.
- Skin contact** : Remove contaminated clothing. Wash off with plenty of water and soap.
Get medical attention.
- Eye contact** : Wash off with plenty of water for at least 15 minutes. Immediately consult an eye specialist.
- Notes to a 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

- Suitable** : In case of a small fire: dry chemical, carbon dioxide.
In case of a large fire: water spray or alcohol resistant foam.
- Special fire-fighting procedures** : Fight fires from a protected location. Dike fire control water for later disposal. Keep container cool by spraying with water.
- Hazardous thermal (de)composition products** : CO, CO₂, HCl, SO_x, NO_x, PO_x, Chlorides and Sulfides.
- Protection of fire-fighters** : Wear suitable protective clothing. Self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Use appropriate protection (see section 8). During cleaning activity, shut off ignition sources.
- 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.
- Methods for cleaning up** : In the event of minor spillage: Absorb in sand or other inert material. Use appropriate containment 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 container dry. Keep away from strong bases. Keep away from sources of ignition - No smoking.

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Packaging materials

Suitable : Multi-layer high density polyethylene extrusion blow containers. Drums with polyethylene liner.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures : Ventilation required. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

Hygiene measures : Wash hands thoroughly after handling. Wash clothing separately before re-use.

Occupational Exposure Limits

Common name : Chlorpyrifos
 TLV (USA) : 0.2 mg/m³, A4 skin (1996).

Common name : Xylene
 TLV (USA) : 434 mg/m³, A4 (1996)

Personal protective equipment

Respiratory system : During spraying wear suitable respiratory equipment.

Skin and body : Wear suitable protective clothing.

Hands : Wear suitable gloves.

Eyes : Safety goggles or face shield.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid.

Colour : Clear amber.

Odour : Characteristic odour.

Molecular weight : Chlorpyrifos: 350.62.

Melting point : 41.5-43.5 - (Pure).

Decomposition temperature : Above 160°C - (Pure).

Vapour pressure : Chlorpyrifos: 2.4X10⁻⁵ mm Hg at a temperature of 25°C - (Pure).

Specific gravity (H₂O=1) : 1.06 - 1.08.

Solubility in water : Emulsifiable.

Flash point : Chlorpyrifos: Above 23°C, (Closed cup).

Explosion properties : Xylene: Lower explosion limit = 1%
 Upper explosion limit = 7%

10. STABILITY AND REACTIVITY

Stability : Stable under normal conditions.

Conditions to avoid : Protect from (sun)light and excessive heat. Avoid temperatures above: 75°C.

Materials to avoid : Strong oxidizing agents, strong acids, strong bases, .

Hazardous reactions : Hazardous polymerization will not occur.

Hazardous decomposition products : CO, CO₂, HCl, SO_x, NO_x, PO_x, Chlorides and Sulfides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity - Oral : LD₅₀ = 508 mg/kg, (rat).

Acute toxicity - Dermal : LD₅₀ > 2000 mg/kg (rabbit).

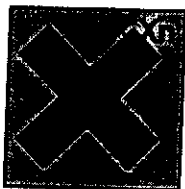
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15. REGULATORY INFORMATION

Classification : This product is provisionally labelled by the supplier in accordance with the suppliers understanding of the EU regulations:

Hazard symbol(s) : Xn, N



HARMFUL (Xn)



DANGEROUS FOR THE ENVIRONMENT (N)

Risk phrases : R10: Flammable.
R20/22: Harmful by inhalation and if swallowed.
R36/38: Irritating to eyes and skin.
R43: May cause sensitization by skin contact.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases : S01/02: Keep locked up and out of the reach of children.
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 where possible).
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.

Contains : 480 g/l Chlorpyrifos,
Approximately 450 g/l Xylene.

16. OTHER INFORMATION

Recommended use : Insecticide.

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

HISTORY

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Date of issue : 15/11/1998

Conforms to 93/112/EC and ISO 11014-1

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The version-number is made up of three parts; part 1 is a general information code, part 2 a country-specific code and part 3 a language-specific code