



**Plant
Protection Products**

Plant Protection Products Tipulex

Material Safety Data Sheet

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1. IDENTIFICATION OF PRODUCT AND COMPANY

Product and Brand Name : Tipulex MAPP 15757
 Supplier : Indigrow Ltd
 Address : The Old Bakery, Hyde End Lane, Brimpton, Berkshire, RG7 4RH
 Contact Number Tel : +44 (0) 1189 710 995 Fax: +44 (0) 1189 710 990
 Emergency Number Tel : +44 (0) 7725 962 366

2. COMPOSITION – INFORMATION ON INGREDIENTS

Chlorpyrifos	44.5 % w/w	CA 2921-88-2	T, N	R 25, 50/53
Xylene	40-50 % w/w	CA 1330-20-7	Xn, Xi	R 10, 20/21, 38
Calcium alkylbenzenesulfonate and n-Butanol	2-5 % w/w	-	Xn, Xi	R 10, 22, 37/38, 41, 67

3. HAZARD IDENTIFICATION

Chlorpyrifos is an anticholinesterase organophosphate. Handle with care

Human:
 Ingestion: Harmful; may cause lung damage
 Skin: Irritant; may cause sensitisation
 Eyes: Risk of serious damage
 Inhalation: Harmful; irritant

Environmental: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Physical: Flammable

4. FIRST AID MEASURES

Always use personal protective equipment if you are likely to be contaminated by contact with the patient.

Symptoms of poisoning: These may include excessive sweating, headache, weakness, faintness and giddiness, nausea, stomach pains, vomiting, small pupils, blurred vision, muscle twitching. If any of these symptoms occur, particularly if there is any known contamination: STOP WORK.

Skin: Remove contaminated clothing; rinse exposed skin and hair immediately with water, then with soap and water. If the patient feels unwell, seek medical advice.

Eyes: Flush immediately with plenty of water for 15 minutes. Seek medical attention.

Inhalation: Remove patient to fresh air. Seek immediate medical attention.

Ingestion: Do not induce vomiting, rinse mouth with water; keep patient at rest; seek medical attention immediately and show the container label or this datasheet.

GUIDE TO DOCTOR

This product contains an anticholinesterase organophosphorus compound.

Specific Treatment:

1. IN ALL CASES AND AS EARLY AS POSSIBLE inject atropine sulphate 2 mg or pro rata for children and repeat if necessary until fully atropinised.
2. IF AVAILABLE administer pralidoxime 1 gram by intra-muscular injection. Repeat after 3-4 hours.

Other measures:

1. Keep airway clear.
2. Watch respiration - intubation with endotracheal tube or tracheotomy may be necessary in conjunction with artificial ventilation.
3. Put patient at complete rest in hospital for at least 24 hours.

Confirmation of Diagnosis: By estimating cholinesterase activity (5 ml blood, unhaemolysed, collected in an anticoagulant).

Further advice from the National Poisons Information Service -Tel: 0870 600 6266



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5. FIRE FIGHTING MEASURES

Wear full protective clothing, goggles and respirator. Call fire brigade for all but small, immediately controllable fires. Product is flammable and toxic fumes may be evolved. Containers may explode on heating due to rise in internal pressure. Avoid breathing smoke. Keep containers cool by spraying with water. Remove intact containers if without risk. Extinguish source of fire, preferably with dry inert powder, foam, carbon dioxide or water fog. Do not use a water jet. Contain fire-fighting water, bunding as necessary with sand or earth.

6. ACCIDENTAL RELEASE MEASURES

Wear coverall, face protection, rubber boots and suitable protective gloves. Keep people and animals away. Remove all means of ignition. Contain spillage, particularly to prevent contamination of water. Inform local water plc immediately if spillage enters drains. Inform the Environment Agency or Scottish Environment Protection Agency if spillage enters surface or ground waters. Absorb into sand, sawdust or other inert material. Collect all contaminated material and place in covered, labelled polyethylene containers for disposal. Do not flush with water.

7. HANDLING AND STORAGE

Keep in original container, tightly closed, in a safe place. Keep away from food, drink and animal feeding stuffs. Keep out of reach of children. Store in a cool, dry place out of direct sunlight. Protect from extremes of temperature.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Chlorpyrifos is an anticholinesterase organophosphorus compound. DO NOT USE if under medical advice NOT to work with such compounds.

Wear suitable protective clothing, gloves and eye/face protection.

Wash concentrate from skin or eyes immediately.

When using, do not eat, drink or smoke.

Do not breathe spray.

Wash all protective clothing thoroughly after use, especially the insides of gloves.

Wash hands and exposed skin before eating and drinking and after work.

If you feel unwell, seek medical advice (show label where possible).

Occupational exposure standards for chlorpyrifos: Long-term exposure limit (8-hour TWA ref. period) = 0.2 mg m⁻³

Short-term exposure limit (15-minute ref. period) = 0.6 mg m⁻³

Occupational exposure standards for xylene: Long-term exposure limit (8-hour TWA ref. period) = 50 ppm or 220 mg m⁻³

Short-term exposure limit (15-minute ref. period) = 100 ppm or 441 mg m⁻³

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, pale yellow-amber liquid

Odour: Characteristic

Flash point: 32°C

Oxidising properties: None

Density: 1.07 g cm⁻³ at 20°C

Explosion limit: Lower 1% for xylene

Upper 7% for xylene

Water solubility: Product emulsifies in water in all proportions

10. STABILITY AND REACTIVITY

Stable in packaging and in air at ordinary temperatures. Keep in original packaging.



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11. TOXOLOGICAL INFORMATION

Acute oral LD50 for rat:	508 mg/kg
Acute dermal LD50 for rat:	>2000 mg/kg
Inhalation LC50 (4 hour) rat:	3.3 mg per litre air
Eye irritation:	Irritant
Skin irritation:	Irritant
Sensitisation (guinea pig):	Positive

12. ECOLOGICAL INFORMATION

LC ₅₀ (96-hour) rainbow trout:	7.1 µg chlorpyrifos per litre
Daphnia LC ₅₀ (48-hour):	0.1 µg chlorpyrifos. per litre
Algae EC ₅₀ (72-hour):	> 0.4 mg chlorpyrifos per litre
Bees:	Oral LD ₅₀ : 250 ng chlorpyrifos/bee (toxic) Contact LD ₅₀ : 59 ng chlorpyrifos/bee (toxic)

13. DISPOSAL CONSIDERATION

Product:	Dispose of via an authorised disposal contractor.
Containers:	Dispose of via an authorised disposal contractor. Consult also 'Pesticides: Code of Practice for the Safe Use of Pesticides on Farms and Holdings' (DEFRA/HSE).

14. TRANSPORT INFORMATION

FLAMMABLE LIQUID, N.O.S., (contains xylene). UN 1993; Class 3; Packing Group III

15. REGULATORY INFORMATION

Contains 480 g/l chlorpyrifos and xylene

Hazard Symbols:



Risk Phrases:

R10 Flammable
R20/22 Harmful by inhalation and if swallowed
R38 Irritating skin
R41 Risk of serious damage to eyes
R43 May cause sensitisation 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
Safety Phrases:
S2 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.
S35 This material and its container must be disposed of in a safe way.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

The Control of Substances Hazardous to Health (COSHH) Regulations may apply to the use of the product at work. This product is approved under the Control of Pesticides Regulations 1986.



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16. OTHER INFORMATION

Validity:

The information contained herein relates only to the designated formulation and may not be valid if product is used in combination with other substances. The information is to the best of our knowledge, belief and understanding, true, accurate and reliable at the date of issue. However, the information may neither be exhaustive or complete, and no warranty, guarantee or liability concerning the accuracy or completeness of the information is expressed or implied. It is the user's risk and sole responsibility to verify and satisfy their own criteria and duty of care concerning the validity of the information in relation to their application of the product.

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