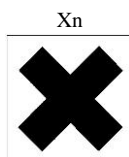


Product Name : **Paxton****MATERIAL SAFETY DATA SHEET****PAXTON**
(IMIDACLOPRID 30.5 % SC)**Table of contents**

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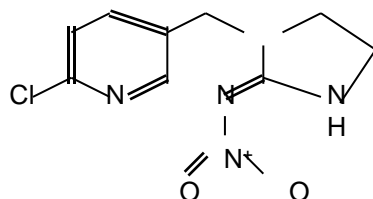
1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Harmful

Product Name: **Paxton (Imidacloprid 30.5 % SC)**
Supplier: **FMC India Pvt Ltd**
Embassy Star,
8, Palace Road,
High Grounds, Bangalore – 560 052 +91-22-
6704 5404
Emergency Telephone No.

2. COMPOSITION/ INFORMATION ON INGREDIENTS**2.1 ACTIVE INGREDIENT**

CAS Name	1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine
ISO Name	Imidacloprid
CAS No	138261-41-3
EC NO.	--
Index No.	--
BIS No.	--
Molecular Weight	255.66
Empirical Formula	C ₉ H ₁₀ ClN ₅ O ₂
Structural Formula	N

Product Name : **Paxton**


2.2 Composition

Active ingredient	Imidacloprid	30.50% by weight.
Other ingredients	Emulsifiers, water etc.	69.50% by weight.

2.3 Material Use Insecticide

3. HAZARDS IDENTIFICATION

3.1 CLASSIFICATION

EU Classification	Xn;R22 R52/53
WHO Classification	--
USA Classification	--
Canada – HMIS Ratings	--

Hazard classification Hazardous (National Occupational Health and Safety Commission - NOHSC)

Risk phrases
R20/22 – Harmful by inhalation and if swallowed.
R40 – Limited evidence of carcinogenic effect.
R43 – May cause sensitization by skin contact.
R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R63 – Possible risk of harm to the unborn child.

Safety phrases See Sections 4, 5, 6, 7, 8, 10, 12, 13

ADG classification “Dangerous good” according to the Australian Code for the Transport of Dangerous Goods by Road and Rail: PESTICIDE, LIQUID, TOXIC, N.O.S. (contains thiacloprid), Class 6.1, Packing Group III, UN 2902. Marine Pollutant. See Section 14.

SUSDP classification

(Poison Schedule) Schedule 6 (Standard for the Uniform Scheduling of Drugs and Poisons)

3.2 Environmental Hazards see 12

4. FIRST AID MEASURES

If poisoning occurs, immediately contact a doctor or Poisons Information Centre, and follow the advice given. Show this Material Safety Data Sheet to the doctor.

Inhalation If inhaled, remove to fresh air and keep warm and at rest. Seek medical advice immediately.

Skin contact	Carefully remove contaminated clothing. Wash affected areas with soap and water. Seek medical advice if symptoms persist.
Eye contact	Rinse eyes immediately with clean water for at least 15 minutes. Obtain immediate Medical advice.
Ingestion	Obtain immediate medical advice as above. Do NOT induce vomiting. Rinse mouth and give small sips of water to drink. Never give anything by mouth to an unconscious or semiconscious person.
First Aid Facilities	Provide washing facilities in the workplace.
Medical attention	Symptoms

High ground
Banglore – 560 052
Tel. ; 91 – 80 – 40099300/88
Fax. : 91-80-40099360 /40099360

Product Name : **Paxton**

Local: None expected.
Systemic: Nicotine-like effects
Treatment

Elementary aid, decontamination and symptomatic treatment.
Gastric lavage should be considered for significant ingestions within the first 2 hours. Administration of activated charcoal and sodium sulphate. *Antidote:* None known.

Note to physician There is no specific antidote against this substance. Treatment is symptomatic and supportive. Gastric lavage and / or administration of activated charcoal can be considered.

5. FIRE – FIGHTING MEASURES

5.1 Extinguishing Media and Procedure Dry chemical, Carbon dioxide, water spray or standard foam. For larger fires, use water spray or standard foam.

Move containers from fire area if possible. Cool containers exposed to flames with flooding amounts of water, apply from as far a distance as possible. Avoid breathing corrosive vapors, keep upwind.

5.2 Hazardous Decomposition or Byproducts in a Fire The essential breakdown products are nitrogen oxides, hydrogen chloride, hydrogen cyanide, carbon monoxide, carbon dioxide and various chlorinated organic compounds.

5.3 Unusual Fire and Explosion -- Hazards

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Protection Observe all protection and safety precautions when cleaning up spills, see 8

6.2 Steps to be taken in case of Spill Take up with sand or other non-combustible

Product Name : **Paxton**

material and place into containers for later disposal. Dispose off in accordance with instruction provided under Disposal (see 13).

Keep unnecessary people away. Isolate hazard area and deny entry. Ventilate closed spaces before entering.

Thiacloprid can be hydrolyzed in water by heating and adjusting the pH (alkaline). The product may also be disposed of through proper incineration.

7 HANDLING AND STORAGE

7.1 Handling Keep out of reach of children. Product is poisonous if swallowed. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

7.2 Storage Store in the closed, original container in a cool, dry, well-ventilated area. Do not store for prolonged periods in direct sunlight.

7.3 Flammability Not flammable – water based product.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure standards There are no applicable NOHSC exposure standards.

8.2 Biological limit values None allocated

8.3 Engineering controls Control process conditions to avoid contact. Use in a well-ventilated area only.

8.4 Personal Protective Equipment

- Wear goggles if exposure is likely.
- Wear cotton overalls buttoned to the neck and wrist (or equivalent clothing).
- Wear elbow-length PVC or nitrile gloves.
- Wear a disposable fume mask.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance:	White to beige liquid suspension
9.2 Odour:	Negligible
9.3 pH:	6 to 8
9.4 Vapour pressure:	3 x 10 ⁻⁷ mPa at 20° C (<i>imidacloprid</i>)
9.5 Vapour density:	Not available
9.6 Boiling point:	~ 100° C
9.7 Freezing/melting point:	Not available
9.8 Solubility:	Miscible with water
9.9 Density:	1.15 g/mL at 20° C

9.10 Flash Point:	No flash point up to the boiling point.
9.11 Flammability (explosive) limits: No ignition temperature up to 600° C.	9.12 Auto-ignition temperature: Not applicable
9.13 Partition coefficient (octanol/water):	<i>Imidacloprid</i> : Log Pow = 1.26 (20° C)

10 STABILITY AND REACTIVITY

10.1 Chemical stability	Stable under normal conditions of use.
10.2 Conditions to avoid	Avoid extreme heat and avoid freezing.
10.3 Incompatible materials	Avoid acids and alkalis.
10.4 Hazardous decomposition products	None under normal conditions. In a fire, formation of hydrogen chloride, hydrogen cyanide, carbon monoxide, sulphur dioxide and nitrogen oxide gases can be expected.
10.5 Hazardous reactions	None known.

Product Name : **Paxton**

High ground
Banglore – 560 052
Tel. : 91 – 80 – 40099300/88
Fax. : 91-80-40099360 /40099360

11 TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

11.1 Inhalation	Harmful by inhalation.
11.2 Skin contact	Not expected to irritate the skin. Skin sensitiser.
11.3 Eye contact	Not expected to irritate the eyes.
11.4 Ingestion	Harmful if swallowed.

ANIMAL TOXICITY DATA – *PRODUCT*

11.5 Acute:	
11.6 Oral toxicity	LD50 rat > 300 - < 500 mg/kg (<i>similar product</i>)
11.7 Dermal toxicity	LD50 rat: > 4000 mg/kg (<i>similar product</i>)
11.8 Inhalation toxicity	LC50 (4 h) rat: > 0.9 - < 2.2 mg/L (as an aerosol) (<i>similar product</i>)
11.9 Skin irritation	Not irritating (rabbit) (<i>similar product</i>)
11.10 Eye irritation	Not irritating (rabbit) (<i>similar product</i>)
11.11 Sensitization	Sensitising (guinea pig) (<i>similar product</i>)

Product Name : **Paxton**

11.12 Chronic:

In animal studies with thiacloprid active ingredient there was limited evidence of a carcinogenic potential and a possible risk of harm to the unborn child. These effects occurred in animals only at high doses and are not considered predictive of similar effects in humans. Thiacloprid was not mutagenic, and was not neurotoxic in animal studies.

12. ECOLOGICAL INFORMATION

Very highly toxic to certain aquatic invertebrates. Thiacloprid was generally of low acute toxicity to birds, slightly toxic to algae, moderately to slightly toxic to earthworms, and moderately to relatively non-toxic to honeybees. Thiacloprid may adversely affect some beneficial insects in worse case situations.

Ecotoxicity

Imidacloprid:

Fish toxicity:

LC50: 30.5 mg/L (96 h); rainbow trout (*Oncorhynchus mykiss*)

LC50: 25.2 mg/L (96 h); bluegill sunfish (*Lepomis macrochirus*)

Aquatic invertebrate toxicity:

EC50: 24.5 µg/L (96 h); amphipod (*Hyaella azteca*) EC50:

2.18 µg/L (28 day) midge (*Chironomus riparius*)

EC50: 85.1 mg/L (48 h) *Daphnia magna* Algae

toxicity:

IC50: 96.7 mg/L (72 h); green algae (*Desmodesmus subspicatus*)

Bird toxicity:

Acute oral LD50: 49 mg/kg; Japanese quail

Acute oral LD50: 2716 mg/kg; bobwhite quail

Imidacloprid 30.5 % SC Insecticide:

Fish toxicity:

LC50: 80.7 mg/L (96 h); bluegill sunfish (*Lepomis macrochirus*)

Environmental fate, persistence and mobility

Imidacloprid has medium to low mobility in soils. DT50 (6 soils) was 7-21 days. Mean Koc 615(6 soils). **degradability,**

Imidacloprid has a low potential for bioconcentration or bioaccumulation

13 DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Method

Waste disposal procedures in conformity with state and local regulations must be followed.

13.2 Container Disposal

Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill. However, procedures in conformity with state and local regulations must be followed.

14 TRANSPORT INFORMATION

UN number

2588

Proper shipping name

PESTICIDE, LIQUID, TOXIC, N.O.S. (contains Imidacloprid)

Class	6.1
Subsidiary Risk	No subsidiary risk
Packing Group	III
EPG	34 – Dangerous Goods – Initial Emergency Response Guide
Hazchem code	2X
Marine Pollutant	Yes

15. REGULATORY INFORMATION

Classification and Labelling	Registered according to the Agricultural and Veterinary Chemicals Act 1988. National Registration authority approval number: 53203.
Signal word	Harmful
Toxicity class	Toxic

16 OTHER INFORMATION

This material should only be used by persons who are made aware of its hazardous properties and have been instructed in the required safety precautions.

Emergency Telephone Number : +91-22-6704 5404

Address: -

Head office : FMC India Pvt Ltd
Embassy Star,
8, Palace Road,
High Grounds, Bangalore – 560 052

Factory Address : AB Chemicals (India)
Industrial Growth Centre, Sidco Phase-1,
Samba-184121
Jammu (J&K)