

## MATERIAL SAFETY DATA SHEET IMIDACLOPRID 35% SC

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Identification of the substance : Imidacloprid 35% SC

Use of the substance : Insecticide

Manufacturer/supplier : Tagros Chemicals India Limited

Address : Tagros Chemicals India Ltd.

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### 2. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS: EMERGENCY OVERVIEW

Eyes : Mild irritant to eyes.

Skin : May cause skin irritation.

Ingestion : Harmful when swallowed.

Inhalation : No hazard in normal use. Product is unlikely to cause any

discomfort or irritation. May cause irritation to nose and

throat.

**Environment** : Toxic to aquatic organisms



Chemical name	CAS No.	EC No.	Classification	Con. % w/v
Imidacloprid (ISO); 1-(6-chloropyridin-3-ylmethyl)-N- nitroimidazolidin-2-ylidenamine	138261-41-3	428-040-8	Xn; R22 N; R50/53	35.0
Others			/	65.0
4. FIRST AID MEASURES			1.10	
Contact with eyes		water affected advice a	e open and rinse slowly for 15-20 minutes. eyes to bright light and show the container ata sheet.	Avoid exposir . Seek medic
Contact with skin		affected	contaminated clothing area with water and so ment advice.	
Ingestion		mouth.	nduce vomiting. Do not Obtain medical attention on is alert, rinse mouth	n immediately.
Inhalation		the sou fresh ai observat	urs or mists have been ree of contamination or r. The patient should tion and obtain med persists.	r move victim be kept und



5. FIRE FIGHTING MEASURES	
Extinguishing media	: If product is involved in a fire, use water spray, foam, dry powder, carbon dioxide or sand.
Special exposure hazards	: Fire may produce irritating or poisonous vapours (toxic compounds of carbon, nitrogen and chlorine), mists or other products of combustion.
Protective equipment for fire-fighting	: Do not breathe fumes. Wear full protective clothing & self-contained breathing apparatus.
Fire fighting guidance	: Keep out of smoke. Fight fire from upwind position. Cool closed containers/tanks exposed to fire with water spray. Do not allow run-off to enter drains or water courses.
6. ACCIDENTAL RELEASE MEASURES	
Personal precautions	: Avoid contact with spilled material or contaminated surfaces. If ordinary clothing becomes contaminated, remove it immediately. When dealing with the spillage do not eat, drink or smoke and wear personal protective clothing as detailed in section 8.
Environmental precautions	: Keep people and animals away. Prevent entry into drains, sewers and watercourses.
Methods for cleaning up	: Small Spill: Sweep or vacuum up spillage and collect in suitable container for disposal.
	Large Spill: Liquid spills on floor or other impervious surfaces should be contained and should be absorbed with attapulgite, bentonite or other absorbent clays. Collect contaminated absorbent, place in plastic-lined metal drum and dispose of in accordance with instructions Provided. Thoroughly scrub floor or other

impervious surface with a strong industrial type

detergent solution and rinse with water.



7. HANDLING AND STORAGE

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Handling	: Wear chemically impervious gloves, safety glasses, goggles or face shield. Mechanical ventilation should be used when handling this product in enclosed spaces. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using the toilet. Remove personal protective equipment (PPE) immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Read all precautions and instructions on the label.
Storage	: Store the material in a well ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco product in the storage area. Prevent eating, drinking, chewing and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.
8. EXPOSURE CONTROLS / PERSON	
Exposure limit value	: ADI: (JMPR) 0.06 mg/kg bw (2001)
Engineering controls	: Mechanical ventilation should be used when handling this product in closed spaces
Respiratory protection	: Use a NIOSH approved respirator in absence of mechanical ventilation.
Hand protection	: Wear chemical-resistant gloves such as nitrile, neoprene rubber, polyvinyl chloride (PVC).

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Eye protection : Wear safety goggles with imperforated side

shield and face shield.

Skin protection : Avoid contact with skin. Wear apron, boots and

full protective suit.

Environmental exposure controls : Keep away from food, drink and animal feed

stuff. This material and its container must be disposed off as hazardous waste. Avoid release to the environment. Refer to special

instructions/safety data sheet.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : Liquid

Color : White to off-white

Odour : Slight characteristic

Molecular Weight : 255.7 (Imidacloprid)

Relative density : 1.15

Solubility in water : Completely miscible

Persistent foam : Maximum: 40 ml after 1 min.

Wet sieve test : Maximum: 0.1% retained on a 75 µm test

sieve.



: Stable for a period of 2 years under nor warehouse conditions.	
: Avoid excessive heat and flame.	
: Avoid contact with strong oxidising agents.	
: Incompatible with oxidizing agents.	
: 695.74 mg/kg bw (technical)	
: >2000 mg/kg bw(technical)	
: Non-irritant to skin of rabbits	
: Mild-irritant to eye of rabbits	
: Non-sensitiser to skin of Guinea pigs	
: Non-carcinogenic in rat and mice	
: Non-mutagenic	
: Non-reprotoxic and teratogenic	



12. ECOLOGICAL INFORMATION	
Ecotoxicity	
Fish, golden orfe	: LC <sub>50</sub> (96 h): 237 mg/l (Imidacloprid)
Daphnia magna	: LC <sub>50</sub> (48 h) 85 mg/l (Imidacloprid)
Algae, <i>Pseudokirchneriella subcapitata</i>	: EC <sub>50</sub> : >100 mg/l (Imidacloprid)
Bees	: Imidacloprid is harmful to honeybees by direct contact, but no problems expected when not sprayed into flowering crop or when used as a seed treatment.
Earthworms, <i>Eisenia foetida</i>	LC <sub>50</sub> : 10.7 mg/kg dry soil. (Imidacloprid)
Birds, Japanese Quails	LD <sub>50</sub> : 31 mg/kg (Imidacloprid)
Mobility	: Imidacloprid and soil metabolites are to be classified as immobile; leaching into deeper soil layers is not to be expected if Imidacloprid is used as recommended.
Persistence and degradability	: Environmental DT50 c. 4 h. Besides sunlight, the microbial activity of a water/sediment system is an important factor for the degradation of Imidacloprid.
13. DISPOSAL CONSIDERATIONS	
Product disposal	: Do not empty into drains or waterways. Disposal of product would usually be by incineration in an appropriate licensed commercial incinerator. Advice may be obtained from local waste regulation authorities.
Container disposal	: Puncture container to avoid re-use. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by local authorities, by burning.



14. TRANSPORT INFORMATION	
UN number	: 2902
UN class	: 6.1
UN packaging group	: III
Proper Shipping Name	: PESTICIDE ,LIQUID , TOXIC, NOS
Additional information	: Imidacloprid designated as marine pollutant.
15. REGULATORY INFORMATION	
Classification	: Xn: Harmful N: Dangerous for the environment
Risk Phrases	: R20/22: Harmful by inhalation and if swallowed. R 21: Harmful in contact with skin. R 36/37/38: Irritating to eyes, respiratory system and
	skin. R50/53: Very toxic to aquatic organisms and may cause long-term adverse effects in the aquatic environment.
Safety Phrases	<ul> <li>S1/2: Keep locked up and out of reach children.</li> <li>S13: Keep away from food, drink and animal feeding stuffs.</li> <li>S24/25: Avoid contact with skin and eyes.</li> <li>S57: Use appropriate containment to avoid environmental contamination</li> <li>S60: This material and its container must be disposed of as hazardous waste</li> <li>S61: Avoid release to the environment. Refer to special instructions/safety data sheets</li> <li>S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.</li> </ul>

: Regulation (EC) No 1907/2006

Reference regulation



### 16. OTHER INFORMATION

MSDS first issued : 08<sup>th</sup> April 2002

MSDS data revised : 07<sup>th</sup> February 2012

#### **DISCLAIMER**

The above information is intended to give general health and safety guidance on the storage and transport of the substance or product to which it relates. It is not intended to apply to the substance or product for which purposes the substance or product label and any appropriate technical usage literature available should be consulted and any relevant licenses, consents or approvals complied with. The requirement or recommendation of any relevant site or working procedure, system or policy in force or arising from any risk assessment involving the substance or product should take precedence over any of the guidance contained in this safety data sheet where there is a difference in the information given. The information provided in this safety data sheet is accurate at the date of publication and will be updated as and when appropriate. No liability will be accepted for any injury loss or damage resulting from any failure to take account of information or advice contained in this safety data sheet.