

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

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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



3. COMPOSITION / INFORMATION ON INGREDIENTS Chemical name CAS No. EC No. Classification Con. % w/v Imidacloprid (ISO); Xn; R22 138261-41-3 428-040-8 35.0 E-1-(6-chloropyridin-3-ylmethyl)-N-N; R50/53 nitroimidazolidin-2-ylidenamine Others 65.0 4. FIRST AID MEASURES : Hold eye open and rinse slowly and gently with Contact with eyes water for 15-20 minutes. Avoid exposing affected eyes to bright light. Seek medical advice and show the container or this material safety data sheet. Contact with skin Remove contaminated clothing and wash the affected area with water and soap. Call a doctor for treatment advice. : Do not induce vomiting. Do not give anything by Ingestion mouth. Obtain medical attention immediately. If the person is alert, rinse mouth thoroughly with water. Inhalation : If vapours or mists have been inhaled, remove the source of contamination or move victim to fresh air. The patient should be kept under observation and obtain medical attention if irritation persists. 5. FIRE FIGHTING MEASURES : If product is involved in a fire, use water spray, **Extinguishing media** 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

: Wear chemically impervious gloves, safety glasses, Handling 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 / PERSONAL PROTECTION **Exposure limit value** : ADI: (JMPR) 0.06 mg/kg bw (2001) : Mechanical ventilation should be used when **Engineering controls** 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).



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.



10. STABILITY AND REACTIVITY

Stability : Stable for a period of 2 years under normal

warehouse conditions.

Conditions to avoid : Avoid excessive heat and flame.

Materials to avoid : Avoid contact with strong oxidising agents.

Incompatibility : Incompatible with oxidizing agents.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Rat LD₅₀ oral, Rats : 695.74 mg/kg bw (technical)

Rat LD₅₀ dermal, Rats : >2000 mg/kg bw(technical)

Skin irritation : Non-irritant to skin of rabbits

Eye irritation : Mild-irritant to eye of rabbits

Skin sensitization : Non-sensitiser to skin of Guinea pigs

Long term studies

Carcinogenicity : Non-carcinogenic in rat and mice

Mutagenicity : Non-mutagenic

Reproductive toxicity : Non-reprotoxic and teratogenic



12. ECOLOGICAL INFORMATION

Ecotoxicity

Fish, golden orfe : LC₅₀ (96 h): 237 mg/l (Imidacloprid)

Daphnia magna : LC₅₀ (48 h) 85 mg/l (Imidacloprid)

Algae, *Pseudokirchneriella*: EC₅₀: >100 mg/l (Imidacloprid)

subcapitata

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, *Eisenia foetida* LC₅₀: 10.7 mg/kg dry soil. (Imidacloprid)

Birds, Japanese Quails LD₅₀: 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 : S1/2: Keep locked up and out of reach children.

S13: Keep away from food, drink and animal

feeding stuffs.

S24/25: Avoid contact with skin and eyes.

S57: Use appropriate containment to avoid

environmental contamination

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

S62: If swallowed, do not induce vomiting: seek medical advice immediately and show this

container or label.

Reference regulation : Regulation (EC) No 1907/2006



16. OTHER INFORMATION

MSDS first issued

: 08th April 2002

MSDS data revised DISCLAIMER : 30th January 2016

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.