

1: IDENTIFICATION

Chemical Name	(RS)-5-ethyl-2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)nicotinic acid		
Synonyms	Imazethapyr 10% SL	Trade Name PARASHOOT	
Uses	Herbicide	Molecular Formula C ₁₅ H ₁₉ N ₃ O ₃	
Manufacturer/Supplier	Ulink AgriTech Pvt. Ltd. Office Nos. 001 And 002, Ground Floor Wing "A" And Nos. 003 And 004 Ground Floor Wing "B", Nyati Tech Park, Wadgaon Sheri, Pune - 411014, Maharashtra		
Emergency Contact	9503095030	E-mail	info@agrostar.in

2: COMPOSITION/INFORMATION OF INGREDIENTS

Chemical Name	CAS #	Percent or Content (w/w)
Imazethapyr a. i (based on 90% purity)	81335-77-5	10.00%
Other Ingredients	-	90.00%

3: HAZARD IDENTIFICATION

Physical/Chemical Hazard:	Acute toxicity, Category 4	Reproductive toxicity, Category 1B
Human Health Hazard:	H315: Causes skin irritation H 320: Cause moderate eye irritation	H 302: Harmful if swallowed H360Df May damage the unborn child. Suspected of damaging fertility H312: Harmful in contact with skin
Environmental Hazard;	H410: Very toxic to aquatic life with long lasting effects	H400: Very toxic to aquatic life

4: FIRST AID MEASURES

General: Have the product container, label or safety data sheet while seeking medical attention, a poison control center or physician, or going for treatment. First aid personnel should wear appropriate protective equipment during any rescue.

Inhalation: Move patients to fresh air and keep warm and at rest in a position comfortable for breathing. Treat respiratory difficulty with artificial respiration and oxygen. Immediately seek medical attention if symptoms are severe or persist.

Ingestion: Rinse mouth with water thoroughly. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention immediately and show this container or label.

Skin Contact: In case of contact with product, gently wipe excess product and wash immediately skin area with plenty of water and soap. Remove and isolate contaminated clothing and shoes. Seek medical attention if irritation persists.

Eye Contact: Rinse immediately with plenty of water for several minutes. After 5 minutes remove contact lenses if present and continue rinsing with plenty of water. Continue to rinse with eyelid wide open for at least 15-20 minutes. Seek medical attention if irritation develops.

Note to physician: No specific Antidote. Treat symptomatically.

5: FIRE FIGHTING MEASURES

Extinguishing Media: Water spray, alcohol-resistant foam, dry chemical powder or carbon dioxide

Specific Hazards: In case of fire, carbon monoxide, carbon dioxide, nitrogen oxides, hydrocarbons can be released. Do not allow contaminated water / firefighting water to enter into drains or waterways

Hazardous Thermal (de)composition: No hazardous decomposition products if stored and handled as prescribed/indicated. If product is heated above decomposition temperature toxic vapours such as carbon monoxide, carbon dioxide, nitrogen oxides, hydrocarbons may be released.

Special Procedures: Collect extinguishing water separately and do not discharge into the drain or water bodies. If risk of water pollution occurs, notify appropriate authorities. Move containers away from area if it can be done without risk. If possible without risk, remove containers from fire zone, cool them with water spray. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

Protection of Fire Fighters: Do not breathe a fumes. Wear fire/ flame resistant/retardant clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with the skin, eyes and clothing. Use personal protective equipment.

Environmental Precaution: Do not allow runoff to enter drains and public waters. Notify the authorities if product enters. Do not discharge into the subsoil/soil.

Methods for Cleaning-up: Adsorb spillages using spillage with non-combustible, absorbent material. Collect and transfer into waste disposal containers and seal securely. Label containers as waste and contaminated materials and remove from the area as soon as possible. Clean contaminated floors and objects thoroughly with water and detergents. Open burning or dumping of this material is prohibited. Wear suitable protective equipment.

7: HANDLING & STORAGE

Handling: Do not smoke, drink, or eat during handling. Wash hands and other exposed areas with soap and water before and after handling material. Wear protective equipments to avoid contact and/or inhalation with the product. Wash clothing and equipment before reuse. Good personal hygiene procedures must be practiced. Specific conditions: Use good local ventilation. Do not apply directly to areas where surface water is present, or to intertidal areas below the mean high water mark.

Storage: Store in dry, cool, well-ventilated area. Keep in original container and tightly closed when not in use. Keep product away from seeds, fertilizer, foods and animal feeds. Store away from incompatible substances.

8: EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Measures: Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

General Protection: Avoid contact with eyes and skin. While handling the product wear cotton overalls buttoned to the neck and wrist, elbow-length PVC gloves. After use and before eating, drinking and smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

Personal Protection: Follow all precautions and instructions on the label. In all other cases the following recommendations would apply.

Respiratory Protection: Respiratory protection not required.

Skin Protection: Wear suitable protective clothing, including long sleeved shirt, long pants and shoes with socks, gloves to avoid skin contact.

Hand Protection: Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride (PVC) or Viton.

Eye Protection: Safety glasses with side-shields. Safety showers and eyewash should be easily available.

Others: Wash clothing before reusing.

9: PHYSICAL/CHEMICAL PROPERTIES

Appearance: Clear Liquid **pH:** approx. 7.5 – 8.5 (1% solution) **Physical State:** Liquid **Odour:** Slight amine odor
Colour: Clear **Density [g/ml]:** approx. 1.04 **Boiling Point [°C]:** approx. 100 **Solubility in Water:** Miscible

10: STABILITY & REACTIVITY

Stability: Stable under normal circumstances upto 3 years

Conditions to Avoid: Avoid excessive temperature.

Hazardous Decomp. Products: In case of fire/heating, toxic fumes, such as carbon dioxide, carbon monoxide and nitrogen oxides may be produced. Vapours may form explosive mixture with air.

Materials to Avoid: Zinc, brass, aluminum and cold rolled steel.

11: TOXICOLOGICAL INFORMATION

Rat oral LD50 [mg/kg]: >5000 Rat inhalation LC50 [mg/l/4h] : >3.27 Skin irritation (rabbit): Non irritant
Dermal (rat) LD50 [mg/kg]: >2000 Skin Sensitization (Guinea Pig): Not a skin sensitizer Eye irritation (rabbit): Reversible eye irritant

12: ECOLOGICAL INFORMATION

Ecotoxicity: Very toxic to aquatic life with with long lasting effects

Rainbow trout LC50 (96 hrs)[mg/L]: 340 Bluegill sunfish EC50(48 hrs) [mg/L]: 420 Mallard ducks LC50 (96 hrs)[mg/kg]: >2150
Bio-accumulation Potential: No data available Honey bee LD50 (48 h) [g/bee] (oral): >24.6

Persistence, Degradability and Mobility in s No data available

13: DISPOSAL CONSIDERATION

Waste-disposal Procedures: Dispose of this product only according to the label. Do not contaminate drains, streams, rivers or waterways with the chemical or used container. Contaminated absorbents, used containers, surplus product, etc., should be burnt in an incinerator, preferably designed for pesticide disposal. Comply with any local legislation applying to waste disposal.

Contaminated Packaging: Contaminated packaging should be emptied as far as possible and disposed of in the pesticide incinerators if it is combustible. For non-combustible packaging, rinse with water thrice, punctured and disposed to a scrap metal facility for recycling or disposal.

14: TRANSPORT INFORMATION

UN No. 3082 **Proper Shipping Name:** Environmentally Hazardous Substance, Liquid, N.O.S. (Imazethapyr)

Land Transport (ADR/RID): Class-9, Packing Group-III

Sea Transport (IMO/IMDG): Class-9, Packing group-III, Marine Pollutant-Yes

Air Transport (IATA/ICAO): Class-9 Packing group-III, Environmental hazard mark-Yes

15: REGULATORY INFORMATION

Hazard Symbol: C: Corrosive, Xi: Irritant, GHS09

Risk Phrase: R21/22, R36/38, R52 **Safety Phrase:** S1/2, S24/25, S26, S 36/37/39, S61

16: OTHER INFORMATION

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