



## MATERIAL SAFETY DATA SHEET

PRODUCT : Imazathapyr 35% + Imazamox 35% WG

PRODUCT DESIGNATION : Herbicide

### Section 1. Product & Company Identification

Common Name : Imazathapyr + Imazamox

Grade : Formulation

Active Ingredient : Imazathapyr + Imazamox

Chemical Name of Active Ingredient (IUPAC) : **Imazamox** 5-(methoxymethyl)-2-(4-methyl-5-oxo-4-propan-2-yl-1~{H}-imidazol-2-yl)pyridine-3-carboxylic acid  
**Imazethapyr** 5-ethyl-2-(4-methyl-5-oxo-4-propan-2-yl-1~{H}-imidazol-2-yl)pyridine-3-carboxylic acid

Chemical Family of A. I. : Imidazolinone herbicides

Molecular Formula of A. I. : **Imazamox** C<sub>15</sub>H<sub>19</sub>N<sub>3</sub>O<sub>4</sub>  
**Imazethapyr** C<sub>15</sub>H<sub>19</sub>N<sub>3</sub>O<sub>3</sub>

Molecular Mass of A. I. : **Imazamox** 305.334 g/mol  
**Imazethapyr** 289.335 g/mol

Manufacturer & Supplier : **M/s PERFECT SOLUTIONS**  
**Office Add:** B-371, Paschim Vihar, New Delhi - 110063 (India)  
**Factory Add:** 15/1, 15/2, 15/3 Industrial Estate, Vidisha - 464001 (M.P.)

Telephone Number : +91 8375844625

### Section 2. Composition / Information on Ingredients

Name of the Components	Concentration% w/w
Imazamox a.i	35.00 % w/w
Imazethapyr a.i	35.00% w/w
other components	30.00% w/w
<b>Total</b>	<b>100.00% w/w</b>



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### Section 3. Hazards Identification

Precautionary statement

Prevention Avoid release to the environment.

Response Collect spillage.

Storage Store away from incompatible materials.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

### Section 4. First Aid Measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists. **Eye contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Rinse mouth. Get medical attention if symptoms occur.

### Section 5. Fire Fighting Measures

**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>). **Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire. **Specific hazards** arising from During fire, gases hazardous to health may be formed. the chemical **Special protective equipment** Self-contained breathing apparatus and full protective clothing must be worn in case of fire. and precautions for firefighters

**Fire fighting** Use water spray to cool unopened containers. equipment/instructions

**Specific methods** Use **standard firefighting procedures** and consider the hazards of other involved materials. **General fire hazards** No unusual fire or explosion hazards noted.

### Section 6. Accidental Release Measures

**Materials and method for containment** This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop the flow of material, if this is without risk. Collect spillage. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.



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## Section 7. Handling & Storage

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**Safe handling** Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.

**Conditions for safe storage** Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

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## Section 8. Exposure Control, personal Protection

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**Occupational exposure limits** No exposure limits noted for ingredient(s). Biological limit values No biological exposure limits noted for the ingredient(s).

Individual protection measures, such as personal protective equipment

Eye/face protection If contact is likely, safety glasses with side shields are recommended.

Skin protection Hand protection For prolonged or repeated skin contact use suitable protective gloves.

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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## Section 9. Physical and Chemical Properties

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Appearance / state	:	Solid
Colour	:	White to off white solid
Odour	:	Characterstic odour
pH	:	NA
Density	:	1.39 g/cm <sup>3</sup> at 20 °C
Suspensibility	:	NA

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## Section 10. Stability & Reactivity

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Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.



Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur. reactions

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition No hazardous decomposition products are known. Products

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## Section 11. Toxicological Information

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<b>LD50 a.i. (oral / rats)</b>	>2000mg/kg
<b>LD50 a.i. (dermal/ rabbits)</b>	>2000 mg/kg
<b>LC50 a.i. (inhalation / rats) (4 hrs)</b>	> 4mg/l
<b>Skin Irritation</b>	Mild irritant
<b>Eye Irritation</b>	Mild irritant
<b>Skin Sensitizer</b>	Non- Sensitizer

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## Section 12. Ecological Information

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**Ecotoxicity** Very toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** Not available.

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## Section 13. Disposal Consideration

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Must be disposed by special means. Suitable incineration and chemical treatment in accordance with local regulations.

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## Section 14. Transport Information

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### IMDG Classification

Shipping name	: Pesticide, Solid, Toxic,,flammable, n.o.s.
Class	: 9
Packing group	: III
UN number	: 3077
Marine pollutant	: Yes



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## Section 15. Regulatory Information

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US FEDERAL REGULATIONS This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.

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## Section 16. Other Information

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All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained here is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.

**Safety Division: PERFECT SOLUTIONS., SAFETY DIVISION**