

### MATERIAL SAFETY DATA SHEET

PRODUCT : Imazethapyr 70% WG

PRODUCT DESIGNATION : Herbicide

#### **Section 1. Product & Company Identification**

Common Name : Imazethapyr  
Grade : Formulation  
Active Ingredient : Imazethapyr  
Chemical Name of Active : (RS)-5-ethyl-2-(4-isopropyl-4-methyl-5-oxo-2-  
Ingredient (IUPAC) imidazolin-2-yl)nicotinic acid  
Chemical Family of A. I. : imidazolinone  
Molecular Formula of A. I. : C<sub>15</sub>H<sub>19</sub>N<sub>3</sub>O<sub>3</sub>  
Molecular Mass of A. I. : 289.3 g/mol  
Manufacturer & Supplier : **M/s United Chemicals**  
**Head office:**B-371, 1<sup>st</sup> Floor, Meera Bagh, New Delhi,  
**Factory:**15/1, 15/2, 15/3, Industrial Estate, Vidisha,  
(M.P)  
Telephone Number : +91-11-25258770

#### **Section 2. Composition / Information on Ingredients**

<u>Name of Components</u>	<u>Concentration% w/w</u>
Imazethapyr	70.00% w/w
Inert Ingredients	30.00% w/w
<b>TOTAL</b>	<b>100.00% w/w</b>

#### **Section 3. Hazards Identification**

##### **DANGEROUS GOOD, NON-HAZARDOUS SUBSTANCE**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Keep out of the reach of children.

Keep away from food, drink and animal feeding stuffs.

When using do not eat, drink or smoke

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### Section 4. First Aid Measures

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**Inhalation :** Remove source of contamination, or leave contaminated area to fresh air as rapidly as possible. Keep the affected person warm and at rest. Treat symptomatically and supportively. Administration of oxygen should be performed by qualified personnel. Get medical attention immediately if effects persist.

**Skin contact:** Remove contaminated clothing, shoes and leather goods immediately. Gently wipe off excess chemical. Wash skin gently and thoroughly with non-abrasive soap and large amounts of water until no evidence of chemical remains (approximately 15 to 20 minutes). If irritation persists, seek medical advice immediately.

**Eye contact:** Immediately flush contaminated eyes with gently flowing clean water for 20 minutes, occasionally lifting upper and lower lids until no evidence of chemical remains (approximately 15 to 20 minutes). Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention if irritation persists.

**Ingestion:** Seek medical advice immediately and show the container, label, or this Data Sheet. DO NOT induce vomiting. If the patient is alert and conscious, have the patient to rinse mouth thoroughly with water. Treat respiratory difficulty with artificial respiration and oxygen.

**Advice to physician:** No specific antidote is available.

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### Section 5. Fire Fighting Measures

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**Extinguishing Media:** dry powder, foam, water spray.

**Unsuitable extinguishing media for safety reasons:** carbon dioxide

**Specific hazards:** carbon monoxide, carbon dioxide, nitrogen oxides The substances/groups of substances mentioned can be released in case of fire.

**Special protective equipment:** Wear self-contained breathing apparatus and chemical-protective clothing.

**Further information:** In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

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### Section 6. Accidental Release Measures

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**Personal Protection :** Use personal protective clothing. Avoid contact with the skin, eyes and clothing. Avoid dust formation.

**Environmental Precautions:**

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

**Methods for cleaning up or taking up:**

**For small amounts:** Contain with dust binding material and dispose of.

**For large amounts:** Sweep/shovel up.

Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers, which can be labeled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Avoid raising dust.

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### Section 7. Handling & Storage

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**Handling:** No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. Hands and/or face should be washed before breaks and at the end of the shift. When using do not eat, drink or smoke.

**Protection against fire and explosion:**

Dust can form an explosive mixture with air. Avoid dust formation. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

**Storage:**

Segregate from foods and animal feeds.

Further information on storage conditions: Protect against moisture. Keep away from heat. Protect from direct sunlight.

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### Section 8. Exposure Control, Personal Protection

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**Components with occupational exposure limits**

no exposure standard allocated

**Personal protective equipment**

**Respiratory protection:** Respiratory protection not required.

**Hand protection:** Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other.

**Eye protection:** Safety glasses with side-shields (frame goggles) (e.g. EN 166)

**Body protection:** Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

**General safety and hygiene measures:** The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

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### Section 9. Physical and Chemical Properties

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<b>Appearance / state</b>	: tan granules, solid
<b>Colour</b>	: tan
<b>Odour</b>	: faint odour
<b>Flash point</b>	: Not Applicable
<b>Explosion hazard</b>	: not explosive
<b>Melting point</b>	: > 20 °C
<b>Bulk Density</b>	: 560.7 - 624.78 kg/m <sup>3</sup> .
<b>Water solubility</b>	: dispersible
<b>pH</b>	: approx. 3 - 5 (20.0 °C)

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### Section 10. Stability & Reactivity

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**Thermal decomposition:** No decomposition if stored and handled as prescribed/indicated.

**Substances to avoid:** strong bases, strong acids, strong oxidizing agents

**Hazardous reactions:** No hazardous reactions if stored and handled as prescribed/indicated.

**Hazardous decomposition products:** No hazardous decomposition products if stored and handled as prescribed/indicated.



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### Section 11. Toxicological Information

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**Acute Oral Toxicity** LD<sub>50</sub> for rats : >5000 mg/kg

**Acute Dermal Toxicity** LD50 Rabbit : >2,000 mg /kg

**Acute Inhalation** LC50 (4h) for male and female rats : >6.8 mg/l air

**Eye Irritation** Rabbit Non irritant to eyes

**Skin Irritant** Rabbit : Non irritant

**Skin sensitization** Guinea pig : Not a skin sensitizer

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### Section 12. Ecological Information

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**Toxicity to fish :** LC50(96 h) Brachydanio rerio > 87.55 mg/l

**Daphnia magna :** EC50 (48h) : >103 mg/l

**Toxicity to Algae :** EC50 (5D) green : 71 mg/l

**Toxicity to Honey bee :** LD50 (48 h) Apis mellifera : > 100 µg/bee

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### Section 13. Disposal Consideration

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Must be sent to a suitable incineration plant, observing local regulations.

**Contaminated packaging:** Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

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### Section 14. Transport Information

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#### IMDG Classification

**Shipping name** : Environmentally hazardous substance, Solid, N.O.S.  
(imazethapyr)

**Class** : 9

**Packing group** : III

**UN number** : 3077

**Marine pollutant** : Yes

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### Section 15. Regulatory Information

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#### Risk phrases:

**R52/53** Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Safety phrases:

**S2** Keep out of the reach of children.

**S13** Keep away from food, drink and animal feeding stuffs.

**S20/21** When using do not eat, drink or smoke.

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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 in receipt of this MSDS to ensure that the information contained herein 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 produces formulations(s) 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 :UNITED CHEMICALS, SAFETY DIVISION**

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