



SHREEJI PESTICIDES PVT. LTD  
(A SUBSIDIARY OF WILLOWOOD CHEMICALS PVT. LTD)

## Material safety data sheet IMAZETHAPYR 70% WDG

Page: 1/10

Date of print 29.05.2017

### 1. Substance/preparation and company identification

Manufacturer/supplier:

Shreeji Pesticides Pvt. Ltd.

(Sub. of Willowood Chemicals Pvt. Ltd.)

Unit - I : Plot No. 69/P, Village - Manjusar,

Taluka - Savli, Dist. Vadodara (Gujarat) India Unit - II : Plot

No. 73, Village - Manjusar,

Taluka - Savli, Dist. Vadodara (Gujarat) India

Telephone: +91 2667 2640018855-6511

### 2. Hazard 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.

### 3.

#### Chemical nature **Composition/information on ingredients**

crop protection product, water dispersible granules, herbicide

#### Hazardous ingredients

Imazethapyr

Content (W/W): 70 %

CAS Number: 81335-77-5



SHREEJI PESTICIDES PVT. LTD  
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## Material safety data sheet IMAZETHAPYR 70% WDG

Page: 210

Date of print 29.05.2017

The wording of the hazard symbols and R-phrases is specified in section 16 if dangerous ingredients are mentioned.

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### 4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air.

On skin contact:

Wash thoroughly with soap and water.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open.

On ingestion:

Rinse mouth and then drink plenty of water.

Note to physician:

Symptoms: No significant reaction of the human body to the product known.

Treatment: Symptomatic treatment (decontamination, vital functions).

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### 5. Fire-Fighting Measures

Suitable 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.



## Material safety data sheet IMAZETHAPYR 70% WDG

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Page: 3/10

Date of print 29.05.2017

### 6. Accidental Release Measures

**Personal precautions:**

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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### 7. Handling and Storage

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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### 8. Exposure controls and personal protection

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



## Material safety data sheet IMAZETHAPYR 70% WDG

Page: 4/10

Date of print 29.05.2017

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.

### 9. Physical and Chemical Properties

Form:	granules
Colour:	tan
Odour:	faint odour
pH value:	approx. 3 - 5 (20.0 °C)
Melting point:	> 20 °C
Boiling point:	The product is a non-volatile solid.
Flash point:	not applicable
Flammability:	not highly flammable
Lower explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Self ignition:	not self-igniting
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating
Vapour pressure:	The product has not been tested.



## Material safety data sheet IMAZETHAPYR 70% WDG

Page: 5/10

Date of print 29.05.2017

Bulk density: 560.7 - 624.78 kg/m<sup>3</sup>  
Relative vapour density (air):  
not determined

Solubility in water: dispersible  
Information on: Imazethapyr  
Partitioning coefficient n-octanol/water (log Pow): 1.49  
(25 °C; pH value: 7)  
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Viscosity, dynamic:  
not applicable

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### 10. Stability and Reactivity

Conditions to avoid:  
See MSDS section 7 - Handling and storage.

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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### 11. Toxicological Information

#### Acute toxicity

Assessment of acute toxicity:  
Virtually nontoxic after a single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact.

LD50 rat (oral): > 5,000 mg/kg

LC50 rat (by inhalation): > 6.8 mg/l 4 h  
No mortality was observed.

LD50 rabbit (dermal): > 2,000 mg/kg  
No mortality was observed.

#### Irritation

Assessment of irritating effects:  
Not irritating to the eyes. Not irritating to the skin.



## Material safety data sheet IMAZETHAPYR 70% WDG

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Page: 6/10

Date of print 29.05.2017

Primary skin irritation rabbit: non-irritant

Primary irritations of the mucous membrane rabbit: non-irritant

### **Sensitization**

Assessment of sensitization:

There is no evidence of a skin-sensitizing potential.

guinea pig: Skin sensitizing effects were not observed in animal studies.

### **Repeated dose toxicity**

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. No substance-specific organotoxicity was observed after repeated administration to animals.

### **Genetic toxicity**

Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

### **Carcinogenicity**

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of various animal studies gave no indication of a carcinogenic effect.

### **Reproductive toxicity**

Assessment of reproduction toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. The results of animal studies gave no indication of a fertility impairing effect.

### **Developmental toxicity**

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

### **Other relevant toxicity information**

Misuse can be harmful to health.

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## 12. Ecological Information

### **Ecotoxicity**



## Material safety data sheet IMAZETHAPYR 70% WDG

Page: 7/10

Date of print 29.05.2017

### Assessment of aquatic toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

#### Information on: Imazethapyr

##### Toxicity to fish:

LC50 (168 h) 87.55 mg/l, Brachydanio rerio  
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#### Information on: Imazethapyr

##### Aquatic invertebrates:

EC50 (96 h) 388.78 mg/l, daphnia

No observed effect concentration (21 d) 103 mg/l, Daphnia magna  
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#### Information on: Imazethapyr

##### Aquatic plants:

EC50 (96 h) 71 mg/l, Selenastrum capricornutum (OECD Guideline 201, static)

EC50 (14 d) 0.0081 mg/l (growth rate), Lemna gibba

No observed effect concentration 0.00228 mg/l, Lemna gibba  
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## Mobility

### Assessment transport between environmental compartments:

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Information on: Imazethapyr

##### Assessment transport between environmental compartments:

Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.  
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## Persistence and degradability

### Assessment biodegradation and elimination (H<sub>2</sub>O):

The product has not been tested. The statement has been derived from the properties of the individual components.

#### Information on: Imazethapyr

##### Assessment biodegradation and elimination (H<sub>2</sub>O):

Not readily biodegradable (by OECD criteria).  
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## Bioaccumulation potential

### Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.



## Material safety data sheet IMAZETHAPYR 70% WDG

Page: 8/10

Date of print 29.05.2017

Information on: Imazethapyr

Bioaccumulation potential:

Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is not to be expected.

### Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

## 13. Disposal Considerations

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.

## 14. Transport Information

### Domestic transport:

Hazard class: 9  
Packing group: III  
ID number: UN 3077  
Hazard label: 9, EHSM  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(contains IMAZETHAPYR)

### Further information

Hazchem Code:2Z

IERG Number:47

### Sea transport

IMDG

Hazard class: 9  
Packing group: III  
ID number: UN 3077  
Hazard label: 9, EHSM  
Marine pollutant: YES  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
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### Air transport

IATA/ICAO

Hazard class: 9



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## Material safety data sheet IMAZETHAPYR 70% WDG

Page: 9/10

Date of print 29.05.2017

Packing group: III  
ID number: UN 3077  
Hazard label: 9, EHSM  
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(contains IMAZETHAPYR)

### **Further information**

Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subjected to the Australian Dangerous Goods Code when transported by road or rail in packagings not exceeding 500 Kg or 500 L.

## 15. Regulatory Information

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) (Australia):

Poisons Schedule: Drugs & Poisons, Schedule 5

R-phrase(s)

R52/53

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

S-phrase(s)

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.

### **Other regulations**

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

### **Registration status:**

AICS, AU  
APVMA 49625

blocked / not listed

## 16. Other Information

Full text of hazard symbols and R-phrases if mentioned as hazardous components in section 3:

Vertical lines in the left hand margin indicate an amendment from the previous version.



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## **Material safety data sheet IMAZETHAPYR 70% WDG**

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Page: 10/10

Date of print 29.05.2017

Date of print 29.10.2018

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.