



MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name	: Pyrazosulfuron-ethyl 10% WP
Common Name	: Pyrazosulfuron-ethyl
IUPAC Name	: Ethyl 5-(4,6-dimethoxypyrimidin-2-ylcarbamoylsulfamoyl)-1-methylpyrazol-4-carboxylate
Chemical Abstracts Name	: Ethyl 5-[[[(4,6-dimethoxy-2-pyrimidinyl)amino]carbonyl]amino]sulfonyl]-1-methyl-1H-pyrazole-4-carboxylate
CAS No.	: 93697-74-6
Chemical formula	: $C_{14}H_{18}N_6O_7S$
Molecular weight	: 414.29 g/mol
Chemical Family	: Sulfonylurea
Use	: Herbicide
Company Name	: HPM Chemicals & Fertilizers Ltd.
Address	: 209-210, Anupam Bhawan, Azadpur Commercial Complex, Azadpur, Delhi- 110033
Phone No.	: (011)-45071800
Fax No.	: (011)-27681800
E-mail	: info@hpmindia.com
Website	: www.hpmindia.com

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Content % (w/w)
Pyrazosulfuron-ethyl	93697-74-6	10.00
Other	-	90.00



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3. HAZARDS IDENTIFICATION

Classification of the Hazardous Chemical:	: Classified as non-hazardous under CLASS Regulations 2013
Signal Word:	: Not applicable
Hazard Statement(s):	: H302 Harmful if swallowed.
Hazards	: H360Df May damage the unborn child. Suspected of damaging Fertility.
Precautionary Statement(s):	: P201 Obtain special instructions before use. P280 Wear protective gloves/ protective clothing/ Eye protection/ face protection. P308 + P313 IF exposed or concerned: Get medical Advice/attention.
Skin and Eyes	: Avoid contact with skin and eyes.
Entry route	: Ingestion, Inhalation, Contact with eye or skin.
Symptoms of poisoning	: Respiratory distress, abnormal movement, convulsion may occur. Eye contact may initially cause eye irritation with discomfort, tearing or blurring of vision. Repeated dermal exposures may lead to skin irritation with discomfort or rash.

4. FIRST AID MEASURES

Ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Eye	: Immediately flush eyes with running water until product is removed. Seek medical advice if irritation persists.
Skin	: Wash off with soap and plenty of water. Consult a physician.
Inhalation	: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
Advice to Physician	: No specific Antidote. Treat symptomatically and supportively.



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5. FIRE FIGHTING MEASURES

Specific Hazard	: Carbon oxides, nitrogen oxides (NO _x), Sulphur oxides
Extinguishing Media	: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Hazard From Combustion products	: If involved in a fire, it will emit toxic and noxious fumes of oxides of carbon, nitrogen or sulfur. Firefighters to wear self-contained breathing apparatus and suitable protective clothing if risk to of exposure to vapour or smoke.
Protective equipment	: Wear full protective clothing and self-contained breathing apparatus. Do not breathe or contact smoke, gases or vapours generated.

6. ACCIDENTAL RELEASE MEASURES

In Case of Emergency	: In case of spillage it is important to take all steps necessary to <ul style="list-style-type: none">• Avoid eye and skin contact• Avoid contamination of waterways Wear full length clothing and PVC gloves, Keep all bystanders away
Clean up Procedures	: Procedure for spill <ol style="list-style-type: none">(1) Keep all bystanders away(2) Wear full length clothing and PVC gloves(3) Reposition any leaking containers so as to minimise further leakage(4) Dam and absorb spill with an absorbent material (e.g. sand or soil)(5) Shovel the absorbed spill into drums(6) Disposal of the absorbed material will depend upon the extent of the spill <ul style="list-style-type: none">• For quantities up to 50 L of product bury in a secure landfill site• For quantities greater than 50 L seek advice from the Manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established



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(7) Decontaminate spill area with detergent and water and rinse with the smallest volume of water practicable

7. HANDLING AND STORAGE

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| Handling | : Avoid contact with eyes and skin. Do not inhale spray mist. Wash hands after use. |
| Storage | : Store in cool place. Keep container tightly closed in a dry and well-ventilated place. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| Engineering Controls | : In the Workplace: ensure ventilation is adequate and that air concentrations of components are controlled below quote Workplace Exposure Standards. Keep containers closed when not in use. No special requirements. Product is used outdoors. |
| Ingestion | : DO NOT eat, drink or apply cosmetics, where there is a potential for exposure to the product. |
| Eye Protection | : Safety goggles, chemical splash goggles or face shield for eyes protection should be used. Safety showers and eye wash should be easily available. |
| Skin Protection | : Chemical resistant gloves, coveralls socks, apron and chemical resistant foot covering should always be used while handling the product. |
| Respiratory protection | : Always use NIOSH/MSHA approved respiratory protection equipment with a universal filter type including particle filter. |
| 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 and face shield. 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. |



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9. PHYSICAL AND CHEMICAL PROPERTIES

Colour	: Off-white
Physical state	: Powder
Vapour pressure	: 1.1×10^{-7} to the 12 mm Hg @ 25°C
Melting Point	: 181-182 °C
K_{ow} logP	: 3.16 (technical)
Solubility	: In water- (dispersible)

10. STABILITY AND REACTIVITY

Chemical Stability	: Stable under normal conditions.
Conditions to Avoid	: Not known
Incompatible Materials	: May react with strong oxidizing agents, such as chlorates, nitrates, peroxides etc.
Hazardous decomposition products	: Will not occur
Hazardous Reactions	: Not known

11. TOXICOLOGICAL INFORMATION (Technical)

Acute Oral LD₅₀	: >5000 mg/kg (Rat)
Acute Dermal LD₅₀	: >2000 mg/kg (Rat)
Acute Inhalation LC₅₀	: >3.9 mg/l (rat)
Skin Irritation	: Non-irritant
Eye Irritation	: Non-irritant
Skin Sensitization	: No sensitization



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12. ECOLOGICAL INFORMATION (Technical)

Bird	:	Acute oral LD ₅₀ for bobwhite quail and mallard ducks >2250 mg/kg
Fish	:	LC ₅₀ (96 h) Rainbow trout - > 180 mg/l Carp > 30 mg/l
Daphnia	:	EC (48 h) - 700 mg/l
Bee	:	LD ₅₀ (contact) >100µg/bee

13. DISPOSAL CONSIDERATIONS

Disposal	:	This material must be disposed of as a Hazardous Waste. Disposal should be in accordance with local, nation or state rule and regulations.
Disposal of empty Containers	:	Break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

14. TRANSPORT INFORMATION

Shipping Name	:	Environmentally Hazardous Substance, Solid, N.O.S. (Pyrazosulfuron-ethyl)
UN No.	:	3077
Class	:	9
Packing group	:	III
Marine pollutant	:	No



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15. REGULATORY INFORMATION

Risk Phrase	R 23/25: toxic by inhalation and if swallowed. R 51/53: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment. R 57: Toxic to bees.
Safety phrase	S 1/2: Keep locked up and out of reach of children. S 26: In case of contact with eyes rinse immediately with plenty of water and seek medical advice. S 35: The material and its container must be disposed-off in a safe way.

16. OTHER INFORMATION

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 resented 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 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 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.



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Accordingly, no guarantee or warrantee expressed or implied is made by HPM Chemicals & Fertilizers Ltd., as to the results to be obtained based upon the user's use of the information, nor does HPM Chemicals & Fertilizers Ltd., assume any liability arising out of user's use of the information.

Date: 26/03/2020
