

Abstracts Name

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name : METSULFURON METHYL 10% + CHLORIMURON ETHYL

10% WP

Common Name : Metsulfuron methyl, Chlorimuron ethyl

IUPAC Name : Metsulfuron methyl -methyl 2-(4-methoxy-6-methyl-1,3,5-

triazin-2-ylcarbamoylsulfamoyl)benzoate

Chlorimuron ethyl -ethyl 2-(4-chloro-6-methoxypyrimidin-

2-ylcarbamoylsulfamoyl)benzoate

Chemical : Metsulfuron methyl -methyl 2-(((((4-methoxy-6-methyl-

1,3,5-triazin-2-yl)amino)carbonyl)amino)sulfonyl)benzoate

Chlorimuron ethyl -ethyl 2-[[[(4-chloro-6-methoxy-2-

pyrimidinyl)amino]carbonyl]amino]sulfonyl]benzoate

CAS No. : Metsulfuron methyl:[74223-64-6]

Chlorimuron ethyl: [90982-32-4]

Chemical formula : Metsulfuron methyl: $C_{14}H_{15}N_5O_6S$

Chlorimuron ethyl: C₁₅H₁₅ClN₄O₆S

Molecular weight : Metsulfuron methyl: 381.36

Chlorimuron ethyl: 414.82

Chemical Family : Metsulfuron methyl: Sulfonylurea

Chlorimuron ethyl: Sulfonylurea

Use : Herbicide

Company Name : HPM Chemicals & Fertilizers Ltd.

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2. **COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	Content % (w/w)
Metsulfuron methyl a.i.	74223-64-6	10
Chlorimuron ethyl a.i.	90982-32-4	10
Others		80
•	LIAZADDO IDENTIFICA	TION

3. HAZARDS IDENTIFICATION

Health Hazards	:	The sulfor	ılfonylurea herbicides are g		genera	generally of	
		low toxicity in mammalian studies.		Animal	studies		
		showed	low	acute to	xicity and	little	chronic,
		reproducti	ve,	or	develo	pmental to	oxicity or
		teratogenic effects. Develop		mental	or		
		teratogenie	e effect	s tended	only to	occur at	high or
		maternally	toxic o	doses.			

: Warning! Keep out of reach of children. Toxic if

swallowed and inhaled. Contact can cause eye or skin

irritation.

Skin and Eyes : Avoid contact with mouth, skin and eyes.

: Ingestion, Inhalation, Contact with eye or skin. **Entry route**

Symptoms of : Eye contact may initially cause eye irritation with poisoning

discomfort, tearing or blurring of vision. Repeated

dermal exposure may lead to skin irritation with

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Website: www.hpmindia.com

Emergency



discomfort or rash.

	4. FIRST AID MEASURES
Ingestion	: If swallowed, induce vomiting by tickling the back of throat. Repeat it until the vomit is clear. Do not induce vomiting if the patient is unconscious.
Eye	: If eyes are contaminated, flush with plenty of clear water for about 10-15 minutes.
Skin	: If clothing and skin are contaminated, remove the clothes and wash the contaminated skin with copious amount of soap and water.
Inhalation	: If inhaled, get the victim into fresh air.
Advice to Physician	: No specific Antidote is known. Treat symptomatically.
	5. FIRE FIGHTING MEASURES
Specific Hazard Extinguishing Media	 There is no risk of an explosion from this product under normal circumstances if involved in a fire. Extinguish fire using media suited to burning material
	If containers are ruptured contain all runoff. CO2 Foam or dry chemical are preferred. Soft stream water fog or fine water sprays if no alternatives. Contain all runoff.
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: Isolate and post spill area. Wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-

buttoned to the neck and wrist, washable hat, elboy

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length PVC gloves and eye/face protection to prevent skin and eyes being affected. Evacuate unprotected and unnecessary personnel from area of spill. If material is leaking from a container, stop the leak only if this can be done safely. Prevent spillage entering drains or watercourses. Contain spill and absorb spilled material with absorbent material such as sand, clay or cat litter and dispose of waste as per regulations.

Clean up Procedures

: To decontaminate spill area, tools and equipment, wash with detergent and water and add the solution to the drums of wastes already collected and label contents. Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

7. HANDLING AND STORAGE

Handling

: Ensure containers are kept closed until using product. Avoid contact with eyes and skin. Wear cotton overalls buttoned to the neck and wrist, washable hat and elbow-length PVC gloves.

Storage

: DO NOT store near (or allow to contact) fertilizers, fungicides or pesticides. Store in the closed original container, in a cool well ventilated area, out of direct sunlight. Store in a room or place away from children, animals, food, feed stuffs, seed and fertilizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary

for some operations.

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.

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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour : Beige
Odour : Slight
Physical state : Solid
pH : 7.9

Form : Wettable powder

10. STABILITY AND REACTIVITY

Chemical Stability : Stable at normal temperatures and storage conditions.

Conditions to Avoid : Not available Hazardous : Not available

decomposition products

Hazardous Reactions: Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Inhalation LC₅₀ : For Rat(4hr): >5.3 mg/l (MM); >5

mg/l (CE)

Skin Irritation: Rabbit (no skin irritation)Eye Irritation: Rabbit (no eye irritation)

Skin Sensitization : Did not cause sensitization on lab

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animals (guinea pig)

12. ECOLOGICAL INFORMATION

Bird : MM:- Acute LD50> 2510 mg/kg

CE:- Acute LD50 > 5620 mg/kg

Fish : MM:-LC50/96 hr/rainbow trout >150

mg/l

CE:- LC50/96 hr/rainbow trout

> 1000 mg/l

Daphnia : MM:- EC50/48 h/Daphnia magna

(Water flea): > 120 mg/l

CE: EC50/48 h/Daphnia magna

(Water flea): > 1,000 mg/l

Bees : MM:-Contact acute LD50 for honey

bees was >50µg/bee while for CE:-

12.5 μg/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. (Metsulfuron methyl, Chlorimuron ethyl)

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UN No. : 3077
Class : 9
Packing group : III
Marine : Yes

pollutant

15. REGULATORY INFORMATION

Hazard symbol



Dangerous for the environment (N)

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.

Safety S 1/2: Keep locked up and out of reach of children.

phrase 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. Accordingly, no guarantee or warrantee expressed or implied is made by

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Date: 15/04/2020		

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