



MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

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 Abstracts Name : 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-pyrimidinyl)amino]carbonyl]amino]sulfonyl]benzoate

Supplier: BR Agrotech Limited

Address: 620/3, GIDC, Panoli, Ankleshwar-394115. Dist. Bharuch. GUJARAT, INDIA.

Website <http://www.bharatgroup.co.in>

2. Composition / Information on ingredients

Chemical Name	Cas No	Percent Or Content(W/W)
Metsulfuron methyl A.I.	74223-64-6	10.00 %
Chlorimuron ethyl A.I.	90982-32-4	10.00%
Other ingredients	---	90.00 %

3. Health Hazards Identification

Health Hazards : The sulfonyleurea herbicides are generally of low toxicity in mammalian studies. Animal studies showed low acute toxicity and little chronic, reproductive, or developmental toxicity or teratogenic effects. Developmental or teratogenic effects tended only to occur at high or maternally toxic doses.



Emergency : 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.

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

Symptoms of poisoning : Eye contact may initially cause eye irritation with discomfort, tearing or blurring of vision. Repeated

Dermal exposure may lead to skin irritation with 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 clean 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 : There is no risk of an explosion from this product under normal circumstances if involved in a fire.

Extinguishing Media : 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 sulphur. 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-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.



- 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 : 7.0 to 9.0
Form : Wettable powder

10. Stability and Reactivity

- Chemical Stability** : Stable at normal temperatures and storage conditions.
Conditions to Avoid : Not available
Hazardous decomposition products : Not available
Hazardous Reactions : Hazardous polymerization will not occur.

11. Toxicological Information

- Acute Oral LD₅₀** : For Rat >5000 mg/kg
Acute Dermal LD₅₀ : For Rat >2,000 mg/kg
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 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 >1000mg/l

(AN ISO 9001:2008 & 14001:2004 CERTIFIED COMPANY)

WORKS : Unit-I : Trilokpur Road, Kala Amb, Tehsil Nahan, Distt. Sirmour - 173030, (H.P.) Phones : 01702 - 238757, 01734 - 325300
Unit-II : Industrial Area, SIDCO, Kathua - 184101 (J&K) Phone : 01922 - 203025 Telefax : 01922 - 232165
Unit-III: 620/3, Nr. Ganesh Chokadi, GIDC, Panoli - 394115 (Gujarat)



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E-mail : info@bharatgroup.co.in • Website : www.bharatgroup.co.in
CIN : U74899DL2000PLC103860

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

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.
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- 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