

MATERIAL SAFETY DATA SHEET

1.	Product	and	Company	y Identification
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Product Name	:	Halosulfuron Methyl 97% TC
Chemical Name	:	3-chloro-5-(4,6-dimethoxypyrimidin-2-ylcarbamoylsulfamoyl)-1- methylpyrazole-4-carboxylate
Туре	:	Herbicide

2. Composition / Information on ingredients

Chemical Name	CAS#	Percent or content (w/w)
Halosulfuron Methyl	100784-20-1	97.00 %
Inerts	-	3.0 %

3. Health Hazards Identification

Eye contact	Non-irritant to mucous membrane of eyes of rabbits.
Skin contact	Non-irritant to skin of rabbits.
Ingestion	Harmful if swallowed.
Environment	Dangerous for the environment. Very toxic to aquatic organisms, may
	cause long-term adverse effects in the aquatic environment.

4. First Aid Measures

Eyes	Dangerous for the environment. Very toxic to aquatic organisms, may cause
	long-term adverse effects in the aquatic environment.

- SkinCarefully remove contaminated clothing. Wash affected area with soap and
water. Seek medical aid if required.
- IngestionIf the material was swallowed and signs of toxicity are severe, induce
vomiting. Keep the person calm and comfortable and obtain medical
assistance as soon as possible.

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Inhalation If inhaled, remove to fresh air and keep at rest. Obtain medical aid if required.

5. Fire Fighting Measures	
Flash point	Non flammable

Special exposure hazardsCombustion or thermal decomposition will evolve toxic and
irritant vapours.

Suitable extinguishingIf product is involved in a fire, use water spray, foam, drymediapowder, carbon dioxide or sand.

Fire fighting precaution Do not breathe fumes. Wear self contained breathing apparatus.

Fire fighting guidance Whenever hexaconazole is involved in a major fire, advise the fire service to wear protective clothing and breathing apparatus. Inform the fire service and other relevant authorities that Hexaconazole is toxic to aquatic organisms, and that water should be used only to cool unaffected stock. In this way, the accumulation of polluted run-off from the site is prevented.

6. Accidental Release Measures

Personal precautionAvoid contact with spilled material or contaminated surfaces. If
ordinary clothing becomes contaminated remove it immediately.
When dealing with the spillage do not eat, drink or smoke and wear
personal protective clothing.Environmental
precautionsKeep people and animals away. Prevent entry into drains, sewers and
watercourses.Methods and material
for contaminated and material.
Transfor to a container for disposed. Weak the spillage area with water

for containment andTransfer to a container for disposal. Wash the spillage area with water.cleaning upWashings must be prevented from entering surface water drains.

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7. Handling and Storage

- **Handling** Wear chemically impervious gloves such as neoprene or nitrile. Wear safety glasses, goggles or face shield. Mechanical ventilation should be used when handling this product in enclosed spaces. Read and observe all precautions and instructions on the label.
- **Storage** Store in original containers, upright and closed. Store in areas that are cool, dry and well ventilated. Store away from seeds, fertilizers and animal feed stuff.

8. Exposure Controls/Personal Protection

Engineering controls	Mechanical ventilation should be used when handling this product in closed spaces.	
Respiratory protection	NIOSH approved organic vapor respirator in absence of mechanical ventilation.	
Eye protection	Wear safety goggles with imperforated side shield and face shield.	
Hand Protection	Wear chemical resistant gloves.	
Skin Protection	Avoid contact with skin. Wear apron, boots and full protective suit.	
Environmental exposure controls	Keep away from food, drink and animal feed stuff. This material and its container must be disposed off as hazardous waste. Avoid release to the environment.	

9. Physical and Chemical Properties

Appearance	Off white
Physical state	Solid
Odour	Specific
рН	7.5-8.5

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10. Stability and Reactivity

Stability	Stable for two years at ambient conditions	
Conditions to avoid	Avoid excessive heat and flame	
Incompatibilities	Strong acidic / alkaline materials	
Materials to avoid	None under normal condition of use	
Hazardous decomposition	Thermal decomposition may release ammonia, carbon monoxide	
Products	and carbon dioxide and oxides of nitrogen.	

11. Toxicological Information

Acute Oral Toxicity	LD ₅₀ (rats) >5000 mg/kg
Acute Dermal Toxicity	LD ₅₀ (Rats) > 5000 mg/kg b.w
Acute Inhalation	LC ₅₀ (rats): >5.9 mg/l
Eye Irritation	Rabbit: Mild Irritant
Skin Irritant	Rabbit: Mild irritant
Skin sensitization	Non sensitizer

12. Ecological Information

Birds - Acute LD _{50:}	>2250 mg/kg.
Aquatic – Acute LC _{50:}	(96hrs) for bluegill sunfish >118
Bees:	LD50(contact) >100 µg/bee
Worms:	LC50 for earthworms >1000 mg/kg soil

13. Disposal Considerations

Waste DisposalDo not empty into drains or waterways. Disposal of product wouldMethodusually be by incineration in an appropriate licensed commercialincinerator. Advice may be obtained from local waste regulation
authorities.

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Container Disposal
methodLightly contaminated packaging may be accepted for landfill, otherwise
incineration will be required.

14. Transport Information

Proper Shipper Name	:	Environmentally hazardous substance, solid, N.O.
Class	:	9
UN No.	:	3077
Packing Group	:	Ш

15. Regulatory Information

Symbol	Xn	Harmful
Special Risks (R-Phrases)	R22	Harmful if swallowed.
	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety Advice (S- Phrases)	S 2 S24/25	Keep out of the reach of children Avoid contact with skin and eyes.
	S36/37 S57	Wear suitable protective clothing and gloves Use appropriate containment to avoid environmental contamination.
	S60	This material and its container must be disposed of as hazardous waste.
	S61	Avoid release to the environment. Refer to special instructions/safety data sheets.
International WHO Toxicity Classification	IV	Non-toxic

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16. Other Information

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.