

Report Date 19-May-16

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1. Identification

Product Name: OMNI BRAND MSM 60 DF HERBICIDE

Synonyms: None

Product Use : Metsulfuron methyl herbicide

Manufacturer/Supplier : Helena Chemical Company

Address: 225 Schilling Blvd. Collierville, TN 38017

General Information: 901-761-0050

Transportation Emergency Number: CHEMTREC:800-424-9300

2. Hazard Identification





Signal Word: Warning

Skin Irritation: Not classified as hazardous under 29 CFR 1910.1200 (2012)

Eye Irritation: Causes eye irritation

Acute Toxicity Oral : LD50 >5,000 mg/kg (female rat)
Acute Toxicity Dermal : LD50 >2,000 mg/kg (rabbits)

Hazard Categories : Inhalation Toxicity-4; Eye Irritation-2B; Acute Aquatic Toxicity-1; Chronic

Aquatic Toxicity-1

Hazard Statement : Causes eye irritation

Harmful if inhaled Very toxic to aquatic life

Very toxic to aquatic life with long lasting effects

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Metsulfuron-methyl: Methyl 2-[[[(4-methoxy-6-methyl-1,3,5-triazin-2-	74223-64-6	60.0
yl)amino]carbonyl]amino]sulfonyl]benzoat		
e Ammonium Sulfate	7783-20-2	=16.6</td
Other ingredients	Proprietary	23.4
Other ingredients	riophetary	23.4

4. First Aid Measures

Eye: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.

Remove contact lenses, if present, after the first 5 minutes, then continue rinsing

eye. Get medical advice or attention.

Skin: Take off contaminated clothing. Rinse skin immediately with plenty of water for

15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation: Remove person to fresh air and keep comfortable for breathing. If person is not

breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor if you feel

unwell.



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Ingestion: Call a poison control center or doctor immediately for treatment advice. Have

person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth if

unconscious.

Indication of Immediate Medical: There is no specific antidote. Treat symptomatically.

Attention and Special Treatment Needed

Fire Fighting Measures

Extinguishing Media: Use water spray, foam, dry chemical or carbon dioxide extinguishing agents.

Specific Hazards Arising from the : Like most organic powders or crystals, under severe dusting conditions, this

Chemical material may form explosive mixtures in air.

Special Fire Fight Proc : Wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

Personal Precautions: Isolate hazard area. Keep unnecessary and unprotected personnel from

entering.

Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and

footwear. Respiratory protection not normally needed. Eyewash and emergency

shower should be available in work area.

Emergency Procedures : Keep material out of lakes, streams, ponds and sewer drains. Clean up spills

immediately.

Methods and Materials for :

Containment and Cleanup

Use a wet sweeping compound or light spray of water to prevent dust formation. Sweep up and shovel into suitable containers for disposal. Clean and neutralize

spill area, tools and equipment by washing with bleach water and soap. Absorb wash water and add to the collected waste. Waste must be classified and

labeled prior to recycling or disposal.

Handling and Storage

Precautions for Safe Handling: Use only outdoors or in a well-ventilated area. Avoid release to the environment.

Keep away from heat, sparks and flames. Avoid breathing dust. Avoid contact with eyes, skin or clothing. Wash hands thoroughly after handling. Wash clothing after use. Wash hands after handling and before eating, drinking,

chewing gum, using tobacco or using the toilet.

Conditions for Safe Storage : Store in original container only. Do not contaminate water, other pesticides,

fertilizer, food or feed in storage. Store in a cool, dry place. Do not store or consume food, drink or tobacco in areas where they may become contaminated

with this material.

Exposure Controls / Personal Protection

TLV/PEL: No TLV/PEL for ingredients in this mixture.

Appropriate Engineering Controls: Use only with adequate ventilation.

Personal Protective Equipment : Splashproof goggles or face shield, impervious gloves, impervious apron and

footwear. Respiratory protection not normally needed. Eyewash and emergency

shower should be available in work area.

Physical and Chemical Properties



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Odor/Appearance : Beige granular solid; no discernible odor.

Flash Point, °F : Not a fire or explosion hazard

Boiling Point, ⁰F : Not applicable Melting Point(Freezing point), ⁰C : Not applicable

Vapor Pressure, mm Hg @ 20 °C : 3.3x10(-7) mPa (25 Deg C)(MSM)

Vapor Density : No data available Solubility in Water : Dispersible

Molecular Formula: Not applicable, formulated mixture.

Density, g/mL @ **25** °C : 0.545 g/cm3 (ambient temp)

Evaporation Rate(Butyl Acetate = : No data available

1)

Octanol/Water Partition : Kow Log P = 0.0018 (MSM)

Coefficient

pH : 5.47 (1%)

Flammable Limits (approximate : No information found

volume % in air)

Auto-ignition Temperature : No information found Decomposition temperature : No data available

10. Stability and Reactivity

Reactivity: Not reactive

Chemical Stability: Stable

Hazardous Decomposition : Oxides of carbon, nitrogen and sulfur.

Products

Hazardous Polymerization: Will not occur

Conditions to Avoid: Heat, moisture and light.

Incompatible Materials: Keep away from strong oxidizing agents.

11. Toxicological Information

Acute Toxicity (Oral LD50) : >5,000 mg/kg (female rat). Not classified as hazardous under 29 CFR

1910.1200 (2012).

Acute Toxicity (Dermal LD50) : >2,000 mg/kg (rabbits). Not classified as hazardous under 29 CFR 1910.1200

(2012).

Acute Toxicity Inhalation LC50 : >2.05 mg/L/4 hour. Harmful if inhaled.

Likely Routes of Exposure : Eye, inhalation

Skin Irritation: Not classified as hazardous under 29 CFR 1910.1200 (2012).

Eye Irritation: Causes eye irritation.

Skin Sensitization: No skin sensitizing reaction (guinea pig).

Carcinogenic: Not carcinogenic (rat). Not listed by ACGIH, NTP, IARC or OSHA.

Chronic Effects: Based on available data, repeated exposures are not anticipated to cause

additional significant adverse effects.

Other Hazards : No teratogenic potential. Animal tests with metsulfuron-methyl have not

demonstrated developmental effects. No evidence of neurotoxicity.

12. Ecological Information

Ecotoxicity: Acute Aquatic Toxicity: Very toxic to aquatic life. Chronic Aquatic Toxicity: Very

toxic to aquatic life with long lasting effects.

Persistence and Degradability: Metsulfuron-methyl will degrade faster under acidic conditions and in soils with

higher moisture content and higher temperature.

Bioaccumulative Potential: No potential.



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Mobility in Soil: Metsulfuron-methyl is relatively mobile in most soils but will be retained longer in

soils with higher percentages of organic matter. More mobile in alkaline soils

than in acidic soils.

Other Adverse Effects: Avoid contamination of any water supply with chemical or empty container.

13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local

procedures under the Resource Conservation and Recovery Act.

14. Transport Information

UN Proper Shipping Name: Not regulated for ground (DOT) shipments. Regulated if shipped by air (IATA) or

water (IMDG).

Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None

Environmental Hazards: Not listed as a marine pollutant per Appendix B to 49 CFR 172.101. If shipped

by air (IATA) or water (IMDG), ship as Marine Pollutant.

Transport in Bulk: Not regulated for ground (DOT) shipments.

Special Precautions for : If shipped by air (IATA) or water (IMDG), ship as: UN3077, Environmentally

Transportation Hazardous Substance, Solid, n.o.s., (Metsulfuron-methyl), 9, PG III, Marine

Pollutant

Freight Classification: Pesticides, NOI, Herbicides, Other than Poison (NMFC Item 155050, Sub 11,

Class 70)

15. Regulatory Information

National Fire Protection : Association Rating

Health: 1 Fire: 1 Reactivity: 0

Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard : Classification (Yes/No)

Immediate(Acute) Health: Y
Delayed (Chronic) Health: N
Sudden Release of N
Pressure:

Fire: N Reactive: N

FIFRA Information : This Chemical is a pesticide product registered by the Environmental Protection Agency and is

subject to certain labelling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on

the pesticide label:

EPA Registration Number: 84229-42-5905

FIFRA Signal Word : Caution

FIFRA Label Statement : Keep out of reach of children.

FIFRA Label Statement : Causes eye irritation.

FIFRA Label Statement



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16. Other Information

Data of Preparation/Revision: 19-May-2016