

# Bensulfuron methyl -MATERIAL SAFETY DATA SHEET

## Manufacturer/information service:

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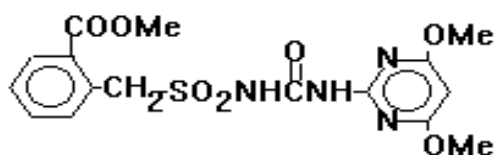
## 1. Chemical Product Identification

Product Name: Bensulfuron methyl

Molecular Formula: C<sub>16</sub>H<sub>18</sub>O<sub>7</sub>N<sub>4</sub>S

Molecular Weight: 410.4

Structural Formula:



Chemical Name: methyl 2-[[[(4,6-dimethoxypyrimidin-2-yl)amino]carbonyl] amino] sulfonyl]methyl]benzoate

Form: Solid

Color: white or slight yellow

Odor: odorless

CAS No.: 83055-99-6

## 2. Composition / Information on Ingredients

Composition	CAS No.	Content %
Bensulfuron methyl	83055-99-6	95.0
Other ingredients		5.0

## 3. Hazards Identification

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if swallowed.

Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing.

#### **4. First Aid Measures**

Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek Medical attention if necessary.

Skin: In case of contact, immediately wash skin with soap and plenty of water. Wash contaminated clothing before re-use.

Inhaled: No specific intervention is indicated, as the compound is not likely to be hazardous by inhalation. However, seek Medical attention if necessary.

Swallowed: If swallowed seek medical attention.

#### **5. Fire-Fighting Measures**

Not a fire and explosion hazard. Like most organic powders, or crystals, under severe dusting conditions, this material may form explosive mixtures in air. Evacuate personnel to a safe area. Wear self-contained breathing apparatus and full protective equipment. Suitable extinguishing media: water spray, dry powder, foam, carbon dioxide (CO<sub>2</sub>). On small fires, if area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the contamination hazard.

#### **6. Accidental Release Measures**

Safeguards (Personnel)

NOTE: Review Fire Fighting measures and handling sections before proceeding with clean-up. Use appropriate Personal protective Equipment during clean-up.

Spill: Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

#### **7. Handling and Storage**

Handling (Personnel): Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Storage: Do not contaminate water, food or feed by storage. Store product in original container only. Store in a cool, dry place

#### **8. Exposure Controls/Personal Protection**

Engineering Controls:

Use only with adequate ventilation.

Personal Protection:

Product will irritate the eyes. Do not inhale dust. When preparing spray and using the prepared spray wear goggles. If product in eyes wash it out immediately with water. Wash hands, face and skin thoroughly with soap and water after use and before eating, drinking or smoking. After each day's use wash goggles.

## 9. Physical and Chemical Properties

Bulk density: 570 - 670 kg/m<sup>3</sup>

Chemical Family: Sulfonylurea

pH: 6.0 – 6.5 at 20°C (at 10 g/L H<sub>2</sub>O)

Melting Point/Range: 185 – 188 °C

Autoignition Temperature: 400 °C

Solubility (water): dispersible

Partition Coefficient (n-octanol/water): 1.56 (pH 5), 6.15 (pH 7)

## 10. Stability and Reactivity

Stable at normal temperatures and storage conditions. No incompatibilities reasonably foreseeable. Decomposition will not occur.

Polymerization: will not occur.

## 11. Toxicological Information

Acute oral LD<sub>50</sub> (rat - male): > 5000 mg/kg

Acute oral LD<sub>50</sub> (rat - female): > 4900 mg/kg

Acute dermal LD<sub>50</sub> (rabbit): > 2000 mg/kg

Acute 4 hr inhalation LC<sub>50</sub> (rat): > 7.5 mg/L (bensulfuron methyl)

## 12. Ecological and Ecotoxicological Information

96 hr LC<sub>50</sub> (rainbow trout and bluegill sunfish): > 450 mg/L

48 hr LC<sub>50</sub> (Daphnia): > 150 mg/L

8 day LC<sub>50</sub> (bobwhite quail and mallard duck): > 5620 mg/kg (bensulfuron methyl)

72 hr EC<sub>50</sub> (algae): 2.0 mg/L

Bioaccumulation: log POW = 0.78 (pH 7) (bensulfuron methyl)

### **13. Disposal Considerations**

Waste Disposal: Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system. Do not contaminate water, food, or feed by disposal. Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, if allowed by state and local authorities, by burning.

### **14. Transport Information**

Not applicable.

### **15. Regulatory Information**

Not applicable.

### **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 presented 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 produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.