



# Bonide Stump Out

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product name : Bonide Stump Out  
Product code : 272

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use as directed on the label.

#### 1.3. Details of the supplier of the safety data sheet

Bonide Products, Inc.  
6301 Sutliff Road  
Oriskany, NY 13424  
Telephone Number: (315) 736-8231  
Comment: Bonide hours of operation are 8:00 a.m. to 4:30 p.m EST.  
Website: [www.bonide.com](http://www.bonide.com)  
Email address: [sales@bonide.com](mailto:sales@bonide.com)

#### 1.4. Emergency telephone numbers (24 hour)

Medical : SafetyCall - (833) 972-1101  
Spills : CHEMTREC - 1 (800) 424-9300 and/or 1 (703) 527-3887

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (GHS-US)

Acute toxicity, oral 4 H302  
Serious eye damage/eye irritation 1 H318  
Hazardous to the aquatic environment - acute H402

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US)



GHS05

GHS07

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H318 - Causes serious eye damage.  
H302 - Harmful if swallowed.  
H402 - Harmful to aquatic life.

Precautionary statements (GHS-US) : P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P273 - Avoid release to the environment.  
P280 - Wear eye protection/face protection.  
P301+P312 - IF SWALLOWED: Get medical help.  
P330 - If swallowed, rinse mouth.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P330 - If swallowed, rinse mouth.  
P501 - Dispose of contents/container to in accordance with local/national regulations.

#### 2.3. Other hazards

Contact with acids liberates toxic gas.

### SECTION 3: Composition/information on ingredients

#### Mixture

Name	Product identifier	%
Sodium Metabisulfite	(CAS No) 7681-57-4	100



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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : If difficulties occur after dust has been inhaled, remove to fresh air and seek medical attention. After inhalation of decomposition products: Immediately administer a corticosteroid from a controlled/metered dose inhaler.
- First-aid measures after skin contact : Wash thoroughly with soap and water.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.
- First-aid measures after ingestion : Rinse mouth and then drink plenty of water.

#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms: Overexposure may cause: vomiting, asthmatic complaints, abdominal cramps, shortness of breath, nausea, diarrhea, coughing.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam.

#### 5.2. Special hazards arising from the substance or mixture

Hazards during fire-fighting: Sulphur dioxide (The substances/groups of substances mentioned can be released if the product is involved in a fire.)

#### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do not breathe fumes.
- Impact Sensitivity : Based on chemical structure there is no shock-sensitivity.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Ensure adequate ventilation. Avoid dust formation. Avoid contact with eyes.

#### 6.2. Environmental precautions

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Only use in well ventilated areas. Avoid dust formation. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Protect from moisture. Do not get in eyes, on skin, or on clothing.

#### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep container tightly closed and dry; store in a cool place. Keep container in a well-ventilated place.
- Incompatible products : Segregate from acids and acid forming substances. Segregate from oxidants. Do not store with: Sodium nitrate, sodium nitrite, sodium sulfide.
- Incompatible materials : Sources of ignition.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Sodium Metabisulfite (7681-57-4)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup>



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### 8.2. Exposure controls

Personal protective equipment	: Avoid all unnecessary exposure. Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).
Hand protection	: Chemical resistant protective gloves, nitrile rubber (NBR) - 0.4 mm coating thickness, polyvinylchloride (PVC) - 0.7 mm coating thickness.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: Wear a NIOSH-certified (or equivalent) particulate respirator.
Other information	: When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: White to yellowish solid.
Color	: White to yellowish.
Odor	: Odor of sulfur dioxide, pungent
Odor threshold	: No data available
pH	: 4.5 at 50 g/l at 20°C
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: > 300 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.48 g/cm <sup>3</sup>
Solubility	: Water: appx. 650 g/l (20°C)
Log Pow	: -3.7 at 25°C
Log Kow	: No data available
Viscosity	: No data available
Bulk Density	: 1,000 - 2,000 kg/m <sup>3</sup>
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.  
Corrosion to metals: No corrosive effect on metal.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Reacts with nitrites. Reacts with nitrates. Reacts with oxidizing agents.

### 10.4. Conditions to avoid

Avoid humidity.

### 10.5. Incompatible materials

Acids, oxidizing agents, nitrites, nitrates, sulfides.

### 10.6. Hazardous decomposition products

Sulfur dioxide.



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### SECTION 11: Toxicological information

#### 11.1. Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

#### 11.2. Acute Toxicity/Effects

##### Acute toxicity

Assessment of acute toxicity: Of moderate toxicity after single ingestion. Virtually nontoxic by inhalation. Virtually nontoxic after a single skin contact. The product has not been fully tested. The statements have been derived in parts from products of a similar structure or composition.

**Oral** - Type of value: LD50 Species: rat (male/female), Value: 1,540 mg/kg (OECD Guideline 401)

**Inhalation** - Type of value: LC50 Species: rat, (male/female) Value: > 5.5 mg/l (IRT), Exposure time: 4 h, Tested as dust aerosol. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

**Dermal** - Type of value: LD50, Species: rat (male/female), Value: > 2,000 mg/kg (OECD Guideline 402)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

##### Assessment other acute effects

Assessment of STOT single: Apart from effects causing lethality, no specific target organ toxicity was observed in experimental studies.

**Irritation / corrosion** - Assessment of irritating effects: Risk of serious damage to eyes. Not irritating to the skin.

##### Skin

Species: rabbit, Result: non-irritant, Method: OECD Guideline 404

##### Eye

Species: rabbit, Result: Risk of serious damage to eyes. Method: OECD, Guideline 405

##### Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies. A sensitizing effect on particularly sensitive individuals cannot be excluded.

Mouse Local Lymph Node Assay (LLNA) Species: mouse, Result: Non-sensitizing. Method: OECD Guideline 429

**Aspiration Hazard** - not applicable

#### 11.3. Chronic Toxicity/Effects

##### Repeated dose toxicity

Assessment of repeated dose toxicity: No substance-specific organ toxicity was observed after repeated administration to animals.

##### Genetic toxicity

Assessment of mutagenicity: No mutagenic effect was found in various tests with bacteria and mammalian cell culture. The substance was not mutagenic in studies with mammals.

##### Carcinogenicity

Assessment of carcinogenicity: In long-term studies in rats in which the substance was given by feed, a carcinogenic effect was not observed.

##### Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.

##### Teratogenicity

Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies.

#### 11.4. Symptoms of Exposure

Overexposure may cause: vomiting, asthmatic complaints, abdominal cramps, shortness of breath, nausea, diarrhea, coughing

### SECTION 12: Ecological information

#### 12.1. Toxicity

Sodium Metabisulfite (7681-57-4)	
LC50 fish 1	32 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 1	89 mg/l (24 h; Daphnia magna)
LC50 fish 2	150 - 220 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
Threshold limit algae 1	48 mg/l (72 h; Scenedesmus subspicatus; Inhibitory)

#### 12.2. Persistence and degradability

Bonide Stump Out	
Persistence and degradability	Not established.

Sodium Metabisulfite (7681-57-4)	
Chemical oxygen demand (COD)	0.154 g O <sub>2</sub> /g substance

#### 12.3. Bioaccumulative potential

Bonide Stump Out	
Bioaccumulative potential	Not established.

Sodium Metabisulfite (7681-57-4)	
Log Pow	-3.7



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### Sodium Metabisulfite (7681-57-4)

Bioaccumulative potential	Bioaccumulation: not applicable.
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#### 12.4. Mobility in soil

The substance will not evaporate into the atmosphere from the water surface. Adsorption to solid soil phase is not expected.

#### 12.5. Other adverse effects

Other information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

### SECTION 14: Transport information

Not regulated for transport by DOT.

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

##### Sodium Metabisulfite (7681-57-4)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

#### 15.3. US State regulations

##### Sodium Metabisulfite (7681-57-4)

U.S. - New Jersey - Right to Know Hazardous Substance List

### SECTION 16: Other information

Other information : None.

SDS US (GHS HazCom 2012) - Pesticides

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*