SECTION 1: Identification

1.1 Product identifier

Product name: Silver Bullet
Brand: Key To Life
Substance name: Sulfur
CAS no.: 7704-34-9

1.4 Supplier's details

Name: Key To Life
Address: 10900 W 120th Avenue
        Suite C
        Broomfield, CO 80021
        USA
Telephone: (303) 955-7838
email: info@keytolifegarden.com

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture
- Acute toxicity, oral (chapter 3.1), Cat. 4
- Acute toxicity, dermal (chapter 3.1), Cat. 4
- Acute toxicity, inhalation (chapter 3.1), Cat. 2
- Skin corrosion/irritation (chapter 3.2), Cat. 2

2.2 GHS label elements, including precautionary statements

Pictogram

Signal word
Danger

Hazard statement(s)
H302 Harmful if swallowed
H312 Harmful in contact with skin
H330 Fatal if inhaled
H315 Causes skin irritation
Precautionary statement(s)
P264 Wash ... thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell,
P330 Dispose of contents/container to ...
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water/...
P312 Call a POISON CENTER/doctor/... if you feel unwell.
P321 Specific treatment (see ... on this label).
P362+P364 Take off contaminated clothing and wash it before reuse.
P280 Do not breathe dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P284 [In case of inadequate ventilation] wear respiratory protection.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 Immediately call a POISON CENTER/doctor/...
P320 Specific treatment is urgent (see ... on this label).
P403+P233 Store in a well ventilated place. Keep container tightly closed.
P405 Store locked up.
P332+P313 If skin irritation occurs: Get medical advice/attention.

SECTION 3: Composition/information on ingredients

3.1 Substances

<table>
<thead>
<tr>
<th>Substance name</th>
<th>Sulfur</th>
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<tr>
<td>CAS no.</td>
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<tr>
<td>Formula</td>
<td>S</td>
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<tr>
<td>Molecular weight</td>
<td>32.07</td>
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<tr>
<td>Other names / synonyms</td>
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Hazardous components

1. Sulfur

<table>
<thead>
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<th>Concentration</th>
<th>80 - 80 %</th>
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</thead>
<tbody>
<tr>
<td>CAS no.</td>
<td>7704-34-9</td>
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</table>

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call physician or poison control center immediately.

In case of skin contact Wash off with soap and plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice. Remove contaminated clothing and shoes.

In case of eye contact Hold eye open and rinse slowly and gently with water for at least 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye, Call a poison control center or doctor for treatment advice.

If swallowed Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
4.2 Most important symptoms/effects, acute and delayed
No information available.

4.3 Indication of immediate medical attention and special treatment needed, if necessary
No information available. Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Specific hazards arising from the chemical
No information available.

5.3 Special protective actions for fire-fighters
Use personal protection equipment. As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Avoid contact with skin, eyes and clothing.

6.2 Environmental precautions
Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up
Sweep up and shovel into suitable containers for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Avoid breathing dust. Keep away from heat, sparks and open flame. - No smoking. Avoid contact with skin, eyes and clothing. In case of insufficient ventilation, wear suitable respiratory equipment.

7.2 Conditions for safe storage, including any incompatibilities
Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur. Store in a dry place and/or in closed container. Keep containers tightly closed in a cool, well-ventilated place.
Incompatible Materials : Strong oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

1. Sulfur (CAS: 7704-34-9)

8.2 Appropriate engineering controls
Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems.
8.3 Individual protection measures, such as personal protective equipment (PPE)

**Eye/face protection**
Avoid contact with eyes. Goggles.

**Skin protection**

**Respiratory protection**
Where airborne exposure is likely, use NIOSH approved respiratory protection equipment appropriate to the material and/or its components. Full facepiece equipment is recommended and, if used, replaces need for face shield and/or chemical goggles. If exposures cannot be kept at a minimum with engineering controls, consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where there may be a potential for significant exposure, use an approved full face positive-pressure, self-contained breathing apparatus.

### SECTION 9: Physical and chemical properties

**Information on basic physical and chemical properties**

- **Appearance/form (physical state, color, etc.)**: Solid; amber color
- **Odor**: Rotten egg-like
- **Odor threshold**: No information available
- **pH**: No information available
- **Melting point/freezing point**: 115 C / 239 F
- **Initial boiling point and boiling range**: 444
- **Flash point**: 207 C
- **Evaporation rate**: No information available
- **Flammability (solid, gas)**: No information available
- **Upper/lower flammability limits**: No information available
- **Vapor pressure**: 0.0086 mbar
- **Vapor density**: No information available
- **Relative density**: Bulk 0.86-1.00 (Tap) g/ml
- **Partition coefficient: n-octanol/water**: No information available
- **Auto-ignition temperature**: 232 C
- **Decomposition temperature**: No information available
- **Viscosity**: No information available
- **Explosive properties**: No information available
- **Oxidizing properties**: No information available

### SECTION 10: Stability and reactivity

**10.1 Reactivity**
No data available.

**10.2 Chemical stability**
Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**
None under normal processing.

**10.4 Conditions to avoid**
Extremes of temperatures and direct sunlight.
10.5 **Incompatible materials**  
Strong oxidizing agents.

10.6 **Hazardous decomposition products**  
No information available.

SECTION 11: Toxicological information

**Information on toxicological effects**

**Acute toxicity**  
Single exposure studies indicate:
- Oral: No more than slightly toxic to rats (LD50 > 2,000 mg/kg)
- Dermal: Slightly toxic to rats (LD50 2,000 mg/kg)
- Inhalation: Slightly toxic to rats (4hr LC50 1.35 mg/l)

**Skin corrosion/irritation**  
May be harmful if absorbed through the skin.

**Serious eye damage/irritation**  
May cause irritation.

**Respiratory or skin sensitization**  
Harmful by inhalation.

**Germ cell mutagenicity**  
No information available.

**Carcinogenicity**  
There are no known carcinogenic chemicals in this product.

**Reproductive toxicity**  
No information available.

**Aspiration hazard**  
No information available.

**Additional information**

dog LDLo intravenous 10mg/kg (10mg/kg)  Journal of the American Pharmaceutical Association, Scientific Edition. Vol. 29, Pg. 289, 1940.
guinea pig LDLo intraperitoneal 55mg/kg (55mg/kg)  Journal of the American Pharmaceutical Association, Scientific Edition. Vol. 29, Pg. 289, 1940.
mammal (species unspecified) LC50 inhalation 1660mg/m3 (1660mg/m3)  Gigiena Truda i Professional'nye Zabolevaniya. Labor Hygiene and Occupational Diseases. Vol. 34(12), Pg. 8, 1990.
rabbit LDLo intravenous 5mg/kg (5mg/kg)  Journal of the American Pharmaceutical Association, Scientific Edition. Vol. 29, Pg. 289, 1940.
rabbit LDLo oral 175mg/kg (175mg/kg)  Journal of the American Pharmaceutical Association, Scientific Edition. Vol. 29, Pg. 289, 1940.
rat LD oral > 8437mg/kg (8437mg/kg)  Gigiena Truda i Professional'nye Zabolevaniya. Labor Hygiene and Occupational Diseases. Vol. 18(5), Pg. 48, 1974.
rat LDLo intravenous 8mg/kg (8mg/kg)  Journal of the American Pharmaceutical Association, Scientific Edition. Vol. 29, Pg. 289, 1940.

SECTION 12: Ecological information

**Toxicity**  
Do not apply directly to water to areas where surface water is present or to intertidal areas below the mean high water mark. Do not clean.
equipment or dispose of equipment washwater in a manner that will contaminate water resources or arable land. Do not apply when weather conditions favor drift from treated areas.

**Persistence and degradability**
No information available.

**Bioaccumulative potential**
No information available.

**Other adverse effects**
No information available.

### SECTION 13: Disposal considerations

### SECTION 14: Transport information

**DOT (US)**
Not Regulated.

**IMDG**
Not Regulated.

**IATA**
Not Regulated.

### SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

**Pennsylvania Right To Know Components**
Chemical name: Sulfur  
CAS number: 7704-34-9

**New Jersey Right To Know Components**
Common name: SULFUR  
CAS number: 7704-34-9

**Massachusetts Right To Know Components**

**HMIS Rating**

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<td>PERSONAL PROTECTION</td>
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**NFPA Rating**