## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**MATERIAL NAME**
- SOLIDA HERBICIDE

**EPA Reg. No.**
- 67760-105

**CAS Number**
- 122931-48-0

**Molecular Formula**
- C₁₄:H₁₇:N₅:O₇:S₂

**Product Use**
- Herbicide

**Synonyms**
- Rimsulfuron

**Manufacturer**
- Cheminova, Inc.
  One Park Drive, Suite 150
  P.O. Box 110566, Research Triangle Park, NC 27709
  United States
  www.cheminova.us.com

**Telephone**
- **Emergency**
  - 1-866-303-6950 - 24-Hour Emergency Medical Emergency
- **Emergency**
  - 1-800-424-9300 - 24-Hour Chemtrec - Continental U.S.
- **Emergency**
  - (703) 527-3887 - 24-Hour Chemtrec - Outside U.S.

## SECTION 2 - HAZARDS IDENTIFICATION

### Emergency Overview

<table>
<thead>
<tr>
<th>ANSI</th>
<th>GHS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAUTION</strong></td>
<td><strong>CAUTION</strong></td>
</tr>
<tr>
<td>May cause eye, skin, and gastrointestinal tract irritation. Avoid contact with skin, eyes, and clothing. Use only with adequate ventilation. Wash thoroughly after handling.</td>
<td>May cause eye, skin, and gastrointestinal tract irritation.</td>
</tr>
</tbody>
</table>

**ANSI**: Irritant

<table>
<thead>
<tr>
<th>Prevention</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling.</td>
<td>If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Storage/Disposal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.</td>
</tr>
</tbody>
</table>

**Physical Form**
- Solid

**Color**
- Off-white to tan.

**Odor**
- Pungent
OSHA
• Irritant
GHS
• Skin Corrosion/Irritation - Category 3, Serious Eye Damage, Eye Irritation - Category 2B
Route Of Entry
• Skin/Dermal, Eye/Ocular, Ingestion/Oral
Target Organs
• Skin/Dermal

NFPA:

Potential Health Effects
Inhalation
- Acute (Immediate)
  - Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)
  - No Data Available

Skin
- Acute (Immediate)
  - May cause irritation.
- Chronic (Delayed)
  - No Data Available

Eye
- Acute (Immediate)
  - May cause irritation.
- Chronic (Delayed)
  - No Data Available

Ingestion
- Acute (Immediate)
  - May cause irritation.
- Chronic (Delayed)
  - No Data Available

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous Components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS</th>
<th>%(weight)</th>
<th>UN/EINECS</th>
<th>LD50/LC50</th>
<th>EU Classification &amp; R Phrases</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Pyridinesulfonamide, N-(((4,6-dimethoxy-2-pyrimidinyl)amino)carbonyl)-3-(ethylsulfonyl)-</td>
<td>122931-48-0</td>
<td>25%</td>
<td>NDA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>orl-rat LD50:&gt;5 gm/kg</td>
<td></td>
<td>NDA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>hli-rat LC50:5200 mg/m3/4H</td>
<td></td>
<td>NDA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>skin-rbt LD50:&gt;2 gm/kg</td>
<td></td>
<td>NDA</td>
</tr>
</tbody>
</table>

### Non-Hazardous Components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS</th>
<th>%(weight)</th>
<th>UN/EINECS</th>
<th>LD50/LC50</th>
<th>EU Classification &amp; R Phrases</th>
<th>Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proprietary Ingredient</td>
<td>Proprietary</td>
<td>75%</td>
<td>Proprietary</td>
<td>NDA</td>
<td>NDA</td>
<td>NDA</td>
</tr>
</tbody>
</table>

SECTION 4 - FIRST AID MEASURES

Inhalation
• No specific intervention is indicated, as product is not likely to be hazardous by inhalation. Remove to fresh air and contact physician if necessary.

Skin
• Call a physician or poison control center. In case of contact, immediately flush with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse.

Eye
• Call a physician or poison control center. Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eye.

Ingestion
• No specific intervention is indicated, as product is not likely to be hazardous by ingestion. Contact a physician if necessary.
SECTION 5 - FIRE FIGHTING MEASURES

Extinguishing Media
- LARGE FIRE: Water spray, fog or regular foam.
- SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing Media
- No Data Available

Firefighting Procedures
- Evacuate personnel to a safe area. Keep personnel removed and upwind of fire.
- Wear self-contained breathing apparatus, Wear full protective equipment. Runoff from fire control may be a pollution hazard.

Unusual Fire and Explosion Hazards
- Decomposition may occur if exposed to extreme heat or flame. Closed containers may reupture if exposed to excessive heat or flame due to build-up of external pressure.

Hazardous Combustion Products
- Carbon dioxide, carbon monoxide, sulfur oxides, nitrogen oxides (NOx), irritating gases, particulates, and smoke.

Protection of Firefighters
- Wear positive pressure self-contained breathing apparatus (SCBA).

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions
- Restrict access to area until completion of clean-up. Ensure clean-up is conducted only by trained personnel. All clean-up personnel should wear appropriate personal protective equipment and clothing.

Emergency Procedures
- Evacuate area. Thoroughly ventilation area.

Environmental Precautions
- Do NOT wash away into sewer. Prevent entry into waterways, sewers, basements or confined areas. Runoff from fire control or dilution water may cause pollution.

Containment/Clean-up Measures
- Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
- Dike far ahead of spill; use dry sand to contain the flow of material.
- Stop leak if you can do it without risk.

Prohibited Materials
- No Data Available

Other Information
- Follow applicable Federal, State/Provincial, and Local laws/regulations. In case of a transportation accident in the United States, contact CHEMTREC at 1-800-424-9300 or International at 1-703-527-3887. If a spill/release in excess of EPA reportable quantity is made into the environment, immediately notify the National Response Center in the United States at 1-800-424-8002. US CERCLA Reportable Quantity (RQ): None.

SECTION 7 - HANDLING AND STORAGE

Handling
- Wear chemically resistant protective clothing when handling. Use only in well-ventilated areas. Avoid contact with eyes, skin, and clothing. Do not breathe vapors and mists. Use caution when opening cap. Keep containers tightly closed when not in use.

Storage
- Store in a cool, dry place.

Special Packaging Materials
- Store product in original container only.

Incompatible Materials or Ignition Sources
- No Data Available

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protective Equipment
- No Data Available

Respiratory
- None needed for normal use in well ventilated areas. Refer to Section 6 for protection during emergency spills.

Eye/Face
- Wear protective eyewear (goggles, face shield, or safety glasses).
Hands
Wear appropriate gloves.

Skin/Body
Wear chemical-resistant clothing and shoe coverings. An eyewash station and safety shower should be available in the immediate area.

General Industrial Hygiene Considerations
Avoid breathing dust. Avoid contact with skin, eyes, and clothing. Do not eat, drinking, smoke, or apply cosmetics while working with this product. Upon completion or interruption of work, wash hands before eating, drinking, smoking, or using toilet facilities. Remove contaminated clothing and thoroughly wash it before reuse. Do not take contaminated clothing home.

Engineering Measures/Controls
Use only with adequate ventilation.

Exposure Limits/Guidelines
For ingredient exposure levels, see Section 2.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical Form
Solid

Appearance/Description
Off-white to tan solid granules.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Off-white to tan</td>
</tr>
<tr>
<td>Odor</td>
<td>Pungent</td>
</tr>
<tr>
<td>Taste</td>
<td>NDA</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>NDA</td>
</tr>
<tr>
<td>Melting Point</td>
<td>NDA</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0 to 0</td>
</tr>
<tr>
<td>Density</td>
<td>NDA</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>NDA</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Miscible</td>
</tr>
<tr>
<td>Solvent Solubility</td>
<td>NDA</td>
</tr>
<tr>
<td>Viscosity</td>
<td>NDA</td>
</tr>
<tr>
<td>Half-Life</td>
<td>NDA</td>
</tr>
<tr>
<td>Octanol/Water Partition coefficient</td>
<td>NDA</td>
</tr>
<tr>
<td>Coefficient of Water</td>
<td>NDA</td>
</tr>
<tr>
<td>Bioaccumulation Factor</td>
<td>NDA</td>
</tr>
<tr>
<td>pH</td>
<td>6.17</td>
</tr>
</tbody>
</table>

SECTION 10 - STABILITY AND REACTIVITY

Stability
Stable under normal temperatures and pressures.

Hazardous Polymerization
Hazardous polymerization will not occur.

Conditions to Avoid
No Data Available

Incompatible Materials
None reasonably foreseeable.

Hazardous Decomposition Products
None known. Refer to Section 7.

SECTION 11 - TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>SOLIDA Herbicide</th>
<th>122931-48-0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Type</td>
<td>Dosage</td>
</tr>
<tr>
<td>Acute Toxicity</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>Acute Toxicity</td>
<td>&gt; 2000 mg/kg</td>
</tr>
<tr>
<td>Acute Toxicity</td>
<td>&gt; 4.62 mg/L</td>
</tr>
</tbody>
</table>

Other Information
Based on animal data, prolonged overexposures by ingestion or inhalation may cause abnormal liver function as detected by laboratory tests. Based on animal data, significant skin permeation and systemic toxicity after contact appears unlikely. There are no reports of human skin sensitization. Repeated and long-term ingestion exposures resulted in decreased body weights, increased liver, kidney, and spleen weights, mild hematological changes, and serum chemistry changes linked to liver effects. A repeated-dose teratogenicity study in rabbits resulted in maternal deaths at excessive doses. There were no effects observed in offspring. A
one-year feeding study in dogs resulted in mild tracheal effects. Rimsulfuron did not
demonstrate carcinogenic effects in long-term feeding studies in rats or mice.
Rimsulfuron did not cause developmental or reproductive effects in animals.
Rimsulfuron did not product genetic damage in bacterial or mammalian cell culture
or in animals.

### SECTION 12 - ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>SOLIDA Herbicide</th>
<th>122931-48-0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Test Type</strong></td>
<td><strong>Dosage</strong></td>
</tr>
<tr>
<td>Aquatic Toxicity</td>
<td>&gt; 360</td>
</tr>
<tr>
<td>Terrestrial Toxicity</td>
<td>&gt; 1000</td>
</tr>
<tr>
<td>Aquatic Toxicity</td>
<td>= 1.2</td>
</tr>
<tr>
<td>Terrestrial Toxicity</td>
<td>&gt; 360</td>
</tr>
<tr>
<td>Terrestrial Toxicity</td>
<td>= 0.005</td>
</tr>
<tr>
<td>Aquatic Toxicity</td>
<td>= 1.9</td>
</tr>
</tbody>
</table>

**Ecological Fate**
- No Data Available

**Persistence/Degradability**
- No Data Available.

**Bioaccumulation Potential**
- No Data Available

**Mobility in Soil**
- No Data Available

**Other Information**
- The ecological characteristics of this product have not been fully investigated. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters. This product is an herbicide. The active ingredient is Rimsulfuron and is considered to be toxic to many plants and non-toxic to fish, aquatic invertebrates, soil micro- and macro-organisms, birds, mammals, and insects.

### SECTION 13 - DISPOSAL CONSIDERATIONS

**Product**
- 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 contaminate water when disposing of equipment rinsewater. Do not apply where/when conditions could favor runoff. Do not apply if a severe storm is expected within 24 hours. Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State, and Local regulations. Do not flush to surface water or sanitary sewer systems. Do not contaminate water, food, or feed by disposal. Waste resulting from the use of this product may be disposed of onsite or at an approved waste facility.

**Packaging**
- Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning. Alternatively, puncture and dispose of container in a sanitary landfill, or by incineration, or, if allowed by State/Provincial or Local authorities, by burning. If burned, stay out of smoke.

### SECTION 14 - TRANSPORTATION INFORMATION

**DOT - United States - Department of Transportation**

**Shipping Name:** Environmentally hazardous substances, solid, n.o.s., (Rimsulfuron), 9, PG III

**ID Number:** 3077

**Hazard Class:** Marine Pollutant

**Labeling Class:**

**Packing Group:** III

**Passenger aircraft/rail:** No Data Available

**Cargo aircraft/rail:** No Data Available

### SECTION 15 - REGULATORY INFORMATION

**SARA Hazard Classifications**
- Acute
In the United States, this product is regulated by the US Environmental Protection Agency under the Federal Insecticide, Fungicide, and Rodenticide Act. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

SECTION 16 - OTHER INFORMATION

Disclaimer/Statement of Liability

- The information in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.