SEMpra® Herbicide

Statement of Hazardous Nature
Hazardous according to criteria of Worksafe Australia

Identification

<table>
<thead>
<tr>
<th>Product Name</th>
<th>SEMpra® Herbicide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Issued</td>
<td>10/1/2000</td>
</tr>
<tr>
<td>Supersedes</td>
<td>28/4/1997</td>
</tr>
<tr>
<td>MSDS No.</td>
<td>238</td>
</tr>
<tr>
<td>UN No</td>
<td>Hazardous</td>
</tr>
<tr>
<td>DG Class</td>
<td>N/A</td>
</tr>
<tr>
<td>Sub Risk</td>
<td>N/A</td>
</tr>
<tr>
<td>Poison Schedule</td>
<td>5</td>
</tr>
<tr>
<td>Prod. Code</td>
<td>US S00012676</td>
</tr>
<tr>
<td>Hazchem</td>
<td>N/A</td>
</tr>
<tr>
<td>Packing Group</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Other Names

Uses
Herbicide. NOT FOR REFORMULATION OR REPACKING.

Physical Description/Properties

Appearance and Odour: Beige granules
Odour: Scorched vanilla

Specific Gravity: N/A
Boiling Point (C): N/A
Melting Point (C): Not available
Vapour Pressure: N/A
Vapour Density: N/A
Evaporation Rate: N/A
Percent Volatiles: None
Solubility (Water): Dispersible
Bulk Density: 0.6 kg/L
pH (1% solution): 6.6

FIRE/EXPLOSION HAZARD
Flash Point (C): This material is not combustible as tested by the Tag Closed Cup test.

Autoignition: Not applicable
LEL: Not applicable
UEL: Not applicable

Ingredients

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS No.</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>HALOSULFURON-METHYL</td>
<td>100784-20-1</td>
<td>75.0 % w/w</td>
</tr>
<tr>
<td>KAOLIN</td>
<td>1332-58-7</td>
<td>8-13 % w/w</td>
</tr>
<tr>
<td>SILICA, AMORPHOUS PRECIPITATED</td>
<td>112926-00-8</td>
<td>&lt;3 % w/w</td>
</tr>
<tr>
<td>CARRIER, BINDING AND ANTIFOAM AGENTS</td>
<td></td>
<td>Balance</td>
</tr>
</tbody>
</table>
SEMIPRA® Herbicide

Health Hazards

Health Effects

Swallowed
No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed.

Skin
Slightly irritating to skin.

Eye
Moderately irritating to eyes. May cause pain, redness and tearing based on toxicity studies

Inhaled
May cause respiratory tract irritation.

NOTE: SEMIPRA herbicide contains less than 1.0% sodium sulfite. In sulfite-sensitive individuals, skin reactions have been reported following dermal exposures, and respiratory reactions have been reported on ingestion of food, or on ingestion or inhalation of medications which contain related sulfiting agents (bisulfites or metasulfites) as preservatives. Individuals with asthma may be more prone to these types of reactions.

First Aid

Swallowed
If swallowed, remove visible particles from mouth and rinse thoroughly with water. Swallow water to dilute. Seek medical advice.
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Skin
Remove contaminated clothing and wash skin thoroughly. Launder contaminated clothing before reuse.

Eye
Hold eyes open, flood with water for at least 15 minutes and see a doctor.

Inhaled
Remove to fresh air.
Get medical attention if breathing difficulty develops.

Advice to Doctor
If further treatment guidance is required, contact Emergency Number: 1800 033 111.
SEMPRA® Herbicide

Precautions For Use

Exposure Standards

Airborne Exposure Limits:

<table>
<thead>
<tr>
<th></th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEMPRA herbicide</td>
<td>None established</td>
<td>None established</td>
</tr>
<tr>
<td>Kaolin Clay</td>
<td>15mg/m³ 8-hr TWA</td>
<td>10mg/m³ total dust</td>
</tr>
<tr>
<td>8-hr TWA*</td>
<td>5mg/m³ 8-hr TWA respirable fraction</td>
<td></td>
</tr>
<tr>
<td>Amorphous Silica, Hydrated</td>
<td>6mg/m³ 8-hr TWA</td>
<td>10mg/m³ 8-hr TWA*</td>
</tr>
</tbody>
</table>

*value for dust containing <1% crystalline silica.

Engineering Controls

Provide ventilation to control exposure levels below airborne exposure limits. Use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

Personal Protection

Precautionary Measures:
Avoid contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly after handling.

Eye Protection:
Wear safety goggles to prevent eye contact during operations such as mixing or transfer or other activities where there is potential for eye contact.

Skin Protection:
Avoid contact as good industrial hygiene practice.
Wash hands and contaminated skin thoroughly after handling.

Respiratory Protection:
Avoid breathing dust. Use appropriate equipment when airborne exposure limits are exceeded.
Consult respirator manufacturer to determine appropriate type of equipment for given application.
The respirator use limitations specified by the manufacturer must be observed. Respiratory protection programs must be in compliance with AS 1715 and AS 1716.

Avoid breathing spray mist.

Flammability

Not combustible or flammable.

See Safe Handling Information - Fire/Explosion Hazard.
SEMPRA® Herbicide

Safe Handling Information

Storage and Transport

Store under cool, dry conditions (below 49°C). Do not store under moist conditions.

The shelf life of this material is expected to be at least two years under normal conditions of storage (<35°C).

Do not contaminate water, food, seed or feed by storage or disposal.

Australian Transport Code:
Label: N/A        Packaging Group: N/A        EPG/GTEPG: N/A

Spills and Disposal

Spill or Leakage Procedures:
Observe all PRECAUTIONS FOR USE, including use of rubber boots or rubber overshoes, when cleaning up spills. Collect solid material and place in a metal or plastic-lined container and dispose of in accordance with instructions provided under Waste Disposal.
After all material is removed, wash floors and other impervious surfaces with an industrial detergent solution and rinse with water.

Waste Disposal:
Wastes that cannot be used according to label instructions or chemically re-processed should be disposed of in a landfill approved for pesticide disposal. Dispose of in accordance with all applicable local and state laws. Avoid contamination of fertilizers, spray materials, seed, feed, foodstuffs or water by storage or disposal.

Containers:
Emptied containers retain material residue. Observe all labelled safeguards until container is cleaned, reconditioned or destroyed. Consult appropriate regulatory officials for information on disposal.
SEMELRA® Herbicide

Safe Handling Information (Continued)

Fire/Explosion Hazard

Extinguishing Media:
Not combustible. Use appropriate extinguishing media for exposure fire.

Special Fire-fighting Procedures:
Fire fighters or others exposed to products of combustion from exposing fire should wear full protective clothing including self-contained breathing apparatus. Thoroughly decontaminate equipment after use.

Unusual Fire and Explosion Hazards:
None

Reactivity Data:
Stability - shelf life expected to be at least two years under normal conditions of storage
Incompatibility - none known
Hazardous decomposition products - none known
Hazardous polymerization - does not occur

Other Information

Special Notes
Warning Statements:
CAUTION.
KEEP OUT OF REACH OF CHILDREN.
READ SAFETY DIRECTIONS ON LABEL BEFORE OPENING OR USING.
Harmful if swallowed.
Avoid contact with eyes and skin.
Do not inhale dust.
Wash hands after use.
SEM_PRA® Herbicide

Other Information (Continued)

Toxicological Data on components (continued):

COMPONENT: Kaolin (containing <1% crystalline silica) Inhalation of excessive amounts of kaolin dust may produce coughing, sneezing and nasal irritation. Long-term over-exposure to kaolin dust may cause respiratory difficulties, such as decreased lung capacity.

COMPONENT: Silica, hydrated amorphous. Inhalation of silica dust can cause drying of mucous membranes of the eyes, nose and throat (due to absorption of moisture and oils) which may result in irritation and occasional nose bleeds. Repeated exposure to silica gel has NOT been reported to have significant adverse health effects in workers. However, persons with breathing problems or lung disease may be at an increased risk. Laboratory studies in animals exposed by inhalation to silica gel have shown no adverse effects.

Environmental Effects of Halosulfuron-methyl:
96-hr LC50 Bluegill sunfish: Slightly toxic >21.4 mg/L
96-hr LC50 Rainbow trout: Slightly toxic >26.7 mg/L
48-hr LC50 Daphnia magna: Slightly toxic >24.0 mg/L
5-day dietary LC50 Bobwhite quail: Practically non-toxic >5620 ppm
5-day dietary LC50 Mallard duck: Practically non-toxic >5620 ppm
Acute oral LD50 Bobwhite quail: Practically non-toxic 2250 mg/kg
Acute contact LD50 Honey bee: Practically non-toxic >100 microg./bee
120-hr growth inhibition EC50 Green Algae: Highly toxic 5.3 ppb
14-day frond production IC50 Duckweed: Very highly toxic 0.038 ppb

Reason for update: Minor text corrections.

FOR ADDITIONAL NON-EMERGENCY INFORMATION: CALL CUSTOMER SERVICES
FREE CALL 1 800 639 899

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