Section 1: Identification

Product identifier

Product Name • Thrush Relief

Synonyms • 100520087; UPC #: 086621027374

Product Description • Dark green viscous liquid.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use • For the treatment of thrush in horses and ponies.

Restrictions on use • Avoid contact with eyes, skin and clothing. Do not use or store near heat or open flame. Keep out of the reach of children. For animal use only. For external use only.

Details of the supplier of the safety data sheet

Manufacturer • Farnam Companies, Inc.
P.O. Box 34820
Phoenix, AZ 85067-4820
United States

www.farnamhorse.com

Emergency telephone number

Manufacturer • 1-800-234-2269

Manufacturer (Transportation) • 1-800-424-9300 - CHEMTREC

Manufacturer (Transportation) • 1-703-527-3887 - CHEMTREC - Outside the US collect calls accepted

Section 2: Hazard Identification

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012 • Aspiration 1 - H304
Flammable Liquids 3 - H226
Skin Irritation 2 - H315
Skin Sensitization 1 - H317
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects - H336
Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation - H335

Label elements

OSHA HCS 2012 • DANGER
Hazard statements

- Flammable liquid and vapour - H226
- Causes skin irritation - H315
- May be fatal if swallowed and enters airways - H304
- May cause an allergic skin reaction - H317
- May cause drowsiness or dizziness - H336
- May cause respiratory irritation - H335

Precautionary statements

Prevention

- Contaminated work clothing should not be allowed out of the workplace. - P272
- Wash thoroughly after handling. - P264
- Wear protective gloves. - P280
- Avoid breathing vapors, dust, mist or spray.
- Use only outdoors or in a well-ventilated area. - P271
- Ground and/or bond container and receiving equipment. - P240
- Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking. - P210
- Keep container tightly closed. - P233
- Take precautionary measures against static discharge. - P243
- Use explosion-proof - electrical, ventilating and/or lighting equipment. - P241
- Use only non-sparking tools. - P242
- Wear protective gloves/protective clothing/eye protection/face protection. - P280

Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison control center or doctor if you feel unwell.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. - P303+P361+P353

If skin irritation or rash occurs: Get medical advice/attention. - P333+P313

Specific treatment, see supplemental first aid information. - P321

Do NOT induce vomiting. - P331

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. - P301+P310

Wash contaminated clothing before reuse. - P363

In case of fire: Use appropriate media for extinction. - P370+P378

Storage/Disposal

Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

Store locked up. - P405

Store in a well-ventilated place. Keep cool. Keep container tightly closed. - P403+P233

Other hazards

OSHA HCS 2012


Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance.

Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Composition</th>
<th>Identifiers</th>
<th>%</th>
</tr>
</thead>
</table>

Preparation Date: 24/November/2014
Revision Date: 24/November/2014

Format: GHS Language: English (US) OSHA HCS 2012

Page 2 of 8
Section 4: First-Aid Measures

Description of first aid measures

Inhalation

• IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin

• IF ON SKIN: Wash skin with soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Eye

• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

• IF SWALLOWED: Immediately call a poison control center or doctor. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

• Aspiration hazard; skin irritant; may cause drowsiness or dizziness; may cause respiratory irritation; may cause an allergic skin reaction in individuals with a sensitivity to Naphthenic Acid. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

• Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media

Water fog, foam, dry chemicals or carbon dioxide.

Unsuitable Extinguishing Media

Avoid heavy hose streams.

Firefighting Procedures

Do not allow fire fighting water to escape into waterways or sewers.
Do not use direct stream of water. A direct stream of water may spread fire.
Eliminate ignition sources.
Ventilate closed spaces before entering.
Do not breathe gas/fumes/vapor/spray.
Liquid will float and may re-ignite on surface water.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

Vapors may travel to source of ignition and flash back.
Flammable liquid.

Hazardous Combustion Products

Liquid will float and may re-ignite on surface of water.
Carbon monoxide and carbon dioxide.
Advice for firefighters

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

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions

- Avoid contact with skin, eyes, and clothing. Ventilate the area before entry. Wear appropriate personal protective equipment, avoid direct contact.

Emergency Procedures

- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Take precautionary measures against static discharge. Avoid release into the environment. Turn off electric power to area. Ventilate closed spaces before entering.

Environmental precautions

- Do not allow runoff into water, storm drains or drainage ditches.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal.
  - All equipment used when handling the product must be grounded.
  - Use clean non-sparking tools to collect absorbed material.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Use good safety and industrial hygiene practices. Avoid contact with skin or eyes. Keep away from heat and ignition sources – No Smoking. Use only with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact.

Conditions for safe storage, including any incompatibilities

Storage

- Keep out of reach of children. Keep away from fire, sparks and heated surfaces. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store at controlled room temperature 15\(^\circ\) to 30\(^\circ\) C (59\(^\circ\) to 86\(^\circ\) F). Keep container tightly closed when not in use.

Incompatible Materials or Ignition Sources


Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines

<table>
<thead>
<tr>
<th>Exposure Limits/Guidelines</th>
<th>Result</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>napthol spirits (8052-41-3)</td>
<td>TWAs</td>
<td>100 ppm TWA</td>
<td>350 mg/m3 TWA</td>
<td>500 ppm TWA; 2900 mg/m3 TWA</td>
</tr>
<tr>
<td></td>
<td>Ceilings</td>
<td>Not established</td>
<td>1800 mg/m3 Ceiling (15 min)</td>
<td>Not established</td>
</tr>
</tbody>
</table>
Exposure controls

Engineering Measures/Controls
- Use adequate ventilation to remove vapors (fumes, dust etc)

Personal Protective Equipment

Pictograms
- Resemblance of hand
- Spectacles

Respiratory
- In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face
- Wear safety goggles.

Hands
- Wear appropriate gloves.

Skin/Body
- If prolonged exposure is anticipated, it is recommended for handlers to wear appropriate clothing to prevent skin contact.

Environmental Exposure Controls
- Refer to Section 13 - Disposal Considerations.

---

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Physical Form</th>
<th>Appearance/Description</th>
<th>Dark green viscous liquid.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color</td>
<td>Dark green.</td>
<td>Odor</td>
<td>No data available</td>
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<tr>
<td>Odor Threshold</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General Properties</th>
<th>Boiling Point</th>
<th>No data available</th>
<th>Melting Point</th>
<th>No data available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Decomposition</td>
<td>No data available</td>
<td>Temperature</td>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Specific Gravity/Relative Density</td>
<td>0.87 Water=1 @ 25 C(77 F)</td>
<td>Water Solubility</td>
<td>Not miscible</td>
<td></td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Volatility</th>
<th>Vapor Pressure</th>
<th>No data available</th>
<th>Vapor Density</th>
<th>Heavier than air</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evaporation Rate</td>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Flash Point</th>
<th>111 F(43.8889 C) PMCC (Pensky-Martins Closed Cup)</th>
<th>UEL</th>
<th>8.9 % for mineral spirits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LEL</td>
<td>0.7 %</td>
<td>for mineral spirits</td>
<td>Autoignition</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Environmental         | Octanol/Water Partition coefficient | No data available | | |

Section 10: Stability and Reactivity

Reactivity
- No data available.

Chemical stability
- No data available.
 Possibility of hazardous reactions
  - Hazardous polymerization will not occur.

Conditions to avoid
  - Heat, sparks, open flame, other ignition sources, and oxidizing conditions.

Incompatible materials
  - Store away from oxidizers and strong acids.

Hazardous decomposition products
  - Carbon monoxide and carbon dioxide.

---

**Section 11 - Toxicological Information**

**Information on toxicological effects**

<table>
<thead>
<tr>
<th>GHS Properties</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Acute toxicity</strong></td>
<td>OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met</td>
</tr>
<tr>
<td><strong>Aspiration Hazard</strong></td>
<td>OSHA HCS 2012 • Aspiration 1</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td><strong>Germ Cell Mutagenicity</strong></td>
<td>OSHA HCS 2012 • Not classified - data lacking.</td>
</tr>
<tr>
<td><strong>Skin corrosion/Irritation</strong></td>
<td>OSHA HCS 2012 • Skin Irritation 2</td>
</tr>
<tr>
<td><strong>Skin sensitization</strong></td>
<td>OSHA HCS 2012 • Skin Sensitizer 1</td>
</tr>
<tr>
<td><strong>STOT-RE</strong></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td><strong>STOT-SE</strong></td>
<td>OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects; Specific Target Organ Toxicity Single Exposure 3: Respiratory Tract Irritation</td>
</tr>
<tr>
<td><strong>Toxicity for Reproduction</strong></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td><strong>Respiratory sensitization</strong></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
<tr>
<td><strong>Serious eye damage/Irritation</strong></td>
<td>OSHA HCS 2012 • Classification criteria not met</td>
</tr>
</tbody>
</table>

**Potential Health Effects**

**Inhalation**
  - **Acute (Immediate)**: May cause respiratory irritation. Intentional misuse by deliberately concentrating and inhaling this material may be harmful or fatal.
  - **Chronic (Delayed)**: No data available

**Skin**
  - **Acute (Immediate)**: May cause skin irritation. May cause an allergic reaction in individuals with a sensitivity to Naphthenic Acid.
  - **Chronic (Delayed)**: Prolonged or repeated exposure may dry the skin, may cause skin defatting. Symptoms may include redness, burning, drying and cracking, and skin damage.
**Eye**

**Acute (Immediate)**
- May cause eye irritation.

**Chronic (Delayed)**
- No data available

**Ingestion**

**Acute (Immediate)**
- Aspiration hazard - small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

**Chronic (Delayed)**
- No data available

---

**Section 12 - Ecological Information**

**Toxicity**
- No data available

**Persistence and degradability**
- No data available.

**Bioaccumulative potential**
- No data available.

**Mobility in Soil**
- No data available.

**Other adverse effects**

---

**Section 13 - Disposal Considerations**

**Waste treatment methods**

**Product waste**
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Never place unused product down any indoor or outdoor drain.

**Packaging waste**
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

---

**Section 14 - Transport Information**

<table>
<thead>
<tr>
<th>DOT</th>
<th>UN number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class (es)</th>
<th>Packing group</th>
<th>Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>None</td>
<td>Consumer commodity</td>
<td>ORM-D</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>UN1993</td>
<td>Flammable liquids, n.o.s. (Naphthenic acid)</td>
<td>9</td>
<td>III</td>
<td>N/A</td>
</tr>
<tr>
<td>IMO/IMDG</td>
<td>UN1993</td>
<td>Flammable liquids, n.o.s. (Naphthenic acid)</td>
<td>9</td>
<td>III</td>
<td>N/A</td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>UN1993</td>
<td>Flammable liquids, n.o.s. (Naphthenic acid)</td>
<td>9</td>
<td>III</td>
<td>N/A</td>
</tr>
</tbody>
</table>
Special precautions for user
None specified.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No data available

Other information

IMO/IMDG
Limited quantity 1L, excepted quantity 30mL

IATA/ICAO
Limited quantity 0.5L, excepted quantity 30mL

Key to abbreviations
N/A = Not applicable.

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications
Not regulated

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Naphthenic acid</td>
<td>1338-24-5</td>
<td>Yes</td>
</tr>
<tr>
<td>Naphthenic acid, copper salt</td>
<td>1338-02-9</td>
<td>Yes</td>
</tr>
<tr>
<td>Napthol Spirits</td>
<td>8052-41-3</td>
<td>Yes</td>
</tr>
</tbody>
</table>

United States

Environment

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

- Naphthenic acid, copper salt
  - CAS: 1338-02-9
  - TSCA: Not Listed

- Napthol Spirits
  - CAS: 8052-41-3
  - TSCA: Not Listed
  - Reportable Quantity (RQ): 100 lb final RQ; 45.4 kg final RQ

- Naphthenic acid
  - CAS: 1338-24-5

Section 16 - Other Information

Last Revision Date
24/November/2014

Preparation Date
24/November/2014

Disclaimer/Statement of Liability

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