Material Safety Data Sheet

For Coatings, Resins and Related Materials

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

24 Hour Emergency: 1-800-123-4567 CHEMTREC: 1-800-424-9300
National Response in Canada CANUTEC: 613-996-6666
Outside U.S. and Canada CHEMTREC: 202-483-7616

Section 1 - Chemical Product / Company Information

Product Name: STEP SAVER GOLDEN OAK
Identification Number: 171
Product Use/Class: URETHANE
Manufacturer: Deft, Inc. (CAGE CODE 33461)

17451 Von Karman Ave
Irvine, Ca. 92614

Revision Date: 11/23/2005
Print Date: 04/21/2006

Section 2 - Hazards Identification

Emergency Overview: Yellow liquid with solvent odor. May cause kidney damage. Harmful by inhalation, in contact with skin, and if swallowed. Contact with eyes or skin causes irritation. Combustible liquid.

Effects Of Overexposure - Eye Contact: Damage may occur to the cornea or lens of the eye. Exposure to liquid, aerosol, or vapors may cause irritation, tearing, redness, and swelling accompanied by a stinging sensation. Direct eye contact may cause irritation.

Effects Of Overexposure - Skin Contact: Direct skin contact may cause irritation. Prolonged and repeated skin contact may cause dermatitis, drying, and defatting due to the solvent properties. Symptoms may include swelling, redness, itching, rash, pain, blistering, and burning sensation. Product may be absorbed through skin and cause harm.

Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes) & acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, drowsiness, unconsciousness, coma, or possible death. Exposure may cause nausea, temporary burning sensation, headache, and fatigue. Additional exposure may cause shortness of breath, wheezing, light-headedness, asthma attacks, tightness of the chest, cough, and permanent scarring in the lungs. Inhalation may cause headaches, difficult breathing, and loss of consciousness. Respiratory depression, failure, or death may result from overexposure.

Effects Of Overexposure - Ingestion: May result in possible corrosive action in the mouth, stomach tissue and digestive tract. Ingestion may cause a burning sensation in the mouth and esophagus. Ingestion may cause gastrointestinal irritation, abdominal pain, nausea, vomiting and diarrhea. Vomiting may cause aspiration of the solvent, resulting in chemical pneumonitis.

Effects Of Overexposure - Chronic Hazards: A component has been shown to cause blood abnormalities, lower activity of certain immune system cells, effects the hearing, mild reversible liver effects, central nervous damage, and cataracts in laboratory animals. Prolonged contact will cause drying and cracking of the skin, due to defatting action. Skin sensitization, asthma or other allergic responses may develop. Contains components listed as a Carcinogen: NTP?: No, IARC Monographs?: Yes, OSHA Regulated?: No. Kidney damage may occur. Symptoms of overexposure may occur for up to 48 hours after the original exposure occurred.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

Section 3 - Composition / Information On Ingredients

Component | CAS Number | Weight % Reporting Ranges
--- | --- | ---
MINERAL SPIRITS | 8052-41-3 | 15-40
AROMATIC HYDROCARBON | 64742-95-6 | 3-7
VM & P NAPHTHA | 64742-89-8 | 1-5
1,2,4 TRIMETHYLBENZENE | 95-63-6 | 1-5
ANTI-SKIN AGENT | 96-29-7 | 0.1-1.0
PAINT DRIER | 22464-99-9 | 0.1-1.0
CUMENE | 98-82-8 | 0.0-0.1
COBALT SALT | TRADE SECRET | 0.0-0.1
COBALT CARBOXYLATE | TRADE SECRET | 0.0-0.1

THE ABOVE LISTED PRODUCTS ARE ON THE TSCA INVENTORY LIST. ALSO ANY UNLISTED INGREDIENTS.

Section 4 - First Aid Measures

First Aid - Eye Contact: If material gets into eyes, flush with water immediately for 15 minutes. Consult a physician. If eyes are irritated from airborne exposure, move to fresh air. Hold eyelids open to rinse out the entire eye.
First Aid - Skin Contact: In case of contact, immediately flush skin with plenty of water and wash affected areas thoroughly with soap and water. Remove contaminated clothing and shoes.

First Aid - Inhalation: Asthmatic type symptoms may develop and maybe immediate or delayed by several hours. Give oxygen or artificial respiration if needed. Move to fresh air in case of accidental inhalation of vapors. In the case of inhalation of aerosol/mist consult a physician, if necessary.

First Aid - Ingestion: Do not induce vomiting. Do not give anything to an unconscious person. Obtain medical help.

Section 5 - Fire Fighting Measures

Flash Point (°F): 105 TCC LOWER EXPLOSIVE LIMIT (%): 0.9 UPPER EXPLOSIVE LIMIT (%): 7.0

Extending Media: Alcohol Foam, Carbon Dioxide, Dry Chemical, Foam, Water Fog, Water Spray, Dry Sand

Unusual Fire And Explosion Hazards: Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flashback. Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flame. Application to hot surfaces requires special precautions. Toxic gases may form when product burns. Do not use a cutting or welding torch near or on a drum of product, because vapors can ignite explosively, even if the drum is empty and contains only product residue. Fire or intense heat may cause violent rupture of packages. Remove all sources of ignition. Special Firefighting Procedures: Cool fire-exposed containers using water spray. Firefighters should wear full protective clothing. In the event of fire, wear self-contained breathing apparatus.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Use personal protective equipment as necessary. Evacuate all non-essential personnel. Remove all sources of ignition. Ventilate area. Contain and remove spilled material with inert absorbent and non-sparking tools. Dike to prevent entering any sewer or waterway.

Section 7 - Handling and Storage

Handling: Keep product and empty container away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice. Use only in ventilated areas. Open doors and windows. CAUTION! SPONTANEOUS COMBUSTION This product will cause spontaneous combustion (starts burning without apparent cause) when rags, paper, spray filters, steelwool, sawdust, or other material soaked or contaminated with this product is improperly disposed. Place contaminated waste materials in a container filled with water. Make sure all contaminated material is completely submerged under the water. Close the container with its proper and securely fit lid. Do not drill, solder, pressurize, grind, cut, weld, or braze empty container. Do not expose empty container to static electricity, heat, flame, sparks, or any source of ignition. Always use grounding leads when transferring from one container to another.

Storage: Store in buildings designed to comply with OSHA 1910.106. Do not store near acids. Protect material from direct sunlight. Do not store with oxidizers. Avoid storing near high temperatures, fire, open flames, and spark sources. Keep containers upright to prevent leakage and tightly closed in a dry, cool and well-ventilated place.

Section 8 - Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH TLV</th>
<th>ACGIH STEL</th>
<th>OSHA PEL</th>
<th>OSHA STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINERAL SPIRITS</td>
<td>100 ppm</td>
<td>N.E.</td>
<td>500 ppm</td>
<td>N.E.</td>
</tr>
<tr>
<td>AROMATIC HYDROCARBON</td>
<td>100 ppm</td>
<td>N.E.</td>
<td>300 ppm</td>
<td>400 ppm</td>
</tr>
<tr>
<td>VM &amp; P NAPHTHA</td>
<td>300 ppm</td>
<td>N.E.</td>
<td>150 mg/m3</td>
<td>N.E.</td>
</tr>
<tr>
<td>1,2,4 TRIMETHYLBENZENE</td>
<td>25 ppm</td>
<td>N.E.</td>
<td>100 ppm</td>
<td>N.E.</td>
</tr>
<tr>
<td>ANTI-SKIN AGENT</td>
<td>N.E.</td>
<td>N.E.</td>
<td>100 ppm</td>
<td>N.E.</td>
</tr>
<tr>
<td>PAINT DRIER</td>
<td>N.E.</td>
<td>N.E.</td>
<td>50 ppm</td>
<td>N.E.</td>
</tr>
<tr>
<td>CUMENE</td>
<td>50 ppm</td>
<td>N.E.</td>
<td>50 ppm</td>
<td>N.E.</td>
</tr>
<tr>
<td>COBALT SALT</td>
<td>0.02 mg/m3</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
<tr>
<td>COBALT CARBOXYLATE</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
</tbody>
</table>

Notes

PAINT DRIER CAS# 22464-99-9 - OSHA 29 CFR 1910.100, Table Z-1 lists Zirconium Compounds (as Zr): ACGIH TWA/TLV 5 mg/m3; TLV/STEL 10 mg/m3

COBALT SALT - Trade Secret - New Jersey Trade Secret Registry Number 5670570001-5015P. Contains Cobalt compounds. Cobalt compounds are listed by IARC as a 2B possibly carcinogenic to humans. ACGIH TLV-TWA is for exposure to cobalt and inorganic compounds.

Engineering Controls: Local ventilation of emission sources may be necessary to maintain ambient concentrations below permissible OSHA exposure limits. Remove all ignition sources (heat, sparks, flame, and hot surfaces).

Respiratory Protection: A respirator that is recommended or approved for use in an organic vapor environment (air purifying or fresh air supplied) is necessary. Observe OSHA regulations for respirator use. Ventilation should be provided to keep exposure levels below the OSHA permissible limits.

Skin Protection: Chemical-resistant gloves (cotton, neoprene, rubber, polyethylene) should be used to prevent skin contact.

Eye Protection: Chemical-resistant eyewear (safety glasses, safety glasses with side-shields, chemical goggles, or face shields) to prevent eye contact.

Other protective equipment: Long sleeve and long leg clothing is recommended. Remove and wash contaminated clothing before reuse or discard. Safety shower and eyewash station should be located in immediate work area.
Section 9 - Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling Range (°F)</td>
<td>N.D. - 396</td>
</tr>
<tr>
<td>Odor</td>
<td>Slightly sweet</td>
</tr>
<tr>
<td>Appearance</td>
<td>Yellow liquid</td>
</tr>
<tr>
<td>Solubility in H₂O</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Freeze Point</td>
<td>N.D.</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>N.D.</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>0.17 n-Butyl Acetate</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.889</td>
</tr>
<tr>
<td>PH</td>
<td>N.A.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>N.A.</td>
</tr>
</tbody>
</table>

Section 10 - Stability and Reactivity

Conditions To Avoid: Do not breathe vapors or spray mist. Avoid high temperatures, sparks, or open flames.

Incompatibility: Keep away from strong oxidizing agents, heat and open flames.

Hazardous Decomposition: Metal oxides when burned. Thermal decomposition can lead to the generation and release of gases and vapors including carbon monoxide, carbon dioxide, oxides of nitrogen, and hydrocarbons.

Hazardous Polymerization: Will not occur.

Stability: Unstable.

Section 11 - Toxicological Information

Product LD₅₀: N.E.
Product LC₅₀: N.E.

Section 12 - Ecological Information

Ecological Information: No Information.

Section 13 - Disposal Information

Disposal Information: Dispose of waste in accordance with federal, state, and local environmental regulations. Empty containers will contain product residue and flammable vapors. Handle as hazardous material. Do not incinerate closed containers.

Section 14 - Transportation Information

DOT Proper Shipping Name: Consumer Commodity
DOT Technical Name: N.A.
DOT Hazard Class: ORM-D
DOT UN/NA Number: N.A.

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD, REACTIVE HAZARD

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>Percent By Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,2,4 TRIMETHYLBENZENE</td>
<td>95-63-6</td>
<td>2.28</td>
</tr>
<tr>
<td>PAINT DRIER</td>
<td>22464-99-9</td>
<td>0.20</td>
</tr>
<tr>
<td>CUMENE</td>
<td>98-82-8</td>
<td>0.1</td>
</tr>
<tr>
<td>COBALT SALT</td>
<td>TRADE SECRET</td>
<td>0.1</td>
</tr>
<tr>
<td>COBALT CARBOXYLATE</td>
<td>TRADE SECRET</td>
<td>0.1</td>
</tr>
</tbody>
</table>

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOLVENT NTSR</td>
<td>TRADE SECRET</td>
</tr>
<tr>
<td>SOLVENT NTTSR 56705700001-5127P</td>
<td>TRADE SECRET</td>
</tr>
</tbody>
</table>

U.S. State Regulations: As follows - New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILED LINSEED OIL</td>
<td>67746-08-1</td>
</tr>
<tr>
<td>URALKYD</td>
<td>TRADE SECRET</td>
</tr>
</tbody>
</table>
Pennsylvania Right-to-Know:
The following non-hazardous ingredients are present in the product at greater than 3%.

**Component**
- BOILED LINSEED OIL
- URALKYD
- ALKYD RESIN

California Proposition 65:
Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

**Component**
- ETHYL BENZENE
- LAMPBLACK
- BENZENE
- SILICA, CRYSTALLINE (QUARTZ)
- NAPHTHALENE

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

**Component**
- BENZENE
- TOLUENE
- BENZENE

International Regulations: As follows -
CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.
CANADIAN WHMIS CLASS: N.A.

HMIS Ratings:
- Health: 3
- Flammability: 2
- Reactivity: 1
- Personal Protection: G

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 346.8
VOLATILE ORGANIC COMPOUNDS, LB/GAL: 2.9
VOLATILE ORGANIC COMPOUNDS MIXED, GR/LTR: ≤ N.D.
VOLATILE ORGANIC COMPOUNDS MIXED, LB/GAL: ≤ N.D.

LEGEND: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.