Product Identification

CHEMICAL NAME / SYNONYM / TRADE NAME:
Gold® Essence (Thinner)*

CHEMICAL FAMILY: Organic Solvents

CHEMICAL FORMULA: 0.6399

CAS NUMBER: mixture

DOT HAZARD CLASS: not known

UN/NA NUMBER: not known / not known

Hazardous Ingredients

<table>
<thead>
<tr>
<th>INGREDIENT</th>
<th>TLV</th>
<th>STEL</th>
<th>PEL</th>
<th>%</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1-Trichloroethane</td>
<td>350 ppm</td>
<td>350 ppm</td>
<td>14-20%</td>
<td>71-55-6</td>
<td></td>
</tr>
<tr>
<td>Turpentine</td>
<td>100 ppm</td>
<td>150 ppm</td>
<td>100 ppm</td>
<td>18-24%</td>
<td>8000-64-2</td>
</tr>
<tr>
<td>O-Nitrotoluene</td>
<td>2 ppm</td>
<td>5 ppm</td>
<td>5 ppm</td>
<td>25-30%</td>
<td>88-72-2</td>
</tr>
<tr>
<td>Xylene</td>
<td>100 ppm</td>
<td>150 ppm</td>
<td>100 ppm</td>
<td>5-10%</td>
<td>1330-20-7</td>
</tr>
<tr>
<td>Camphor</td>
<td>2 ppm</td>
<td>3 ppm</td>
<td>2 mg/m3</td>
<td>15-20%</td>
<td>76-26-2</td>
</tr>
</tbody>
</table>

* Denotes SARA Section 313 Title 111 Toxic Chemicals

Physical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILING POINT</td>
<td>unknown</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY (H2O=1)</td>
<td>&lt;1</td>
</tr>
<tr>
<td>PERCENT VOLATILE</td>
<td>84.5%</td>
</tr>
<tr>
<td>VAPOR DENSITY (AIR=1)</td>
<td>not known</td>
</tr>
<tr>
<td>EVAPORATION RATE</td>
<td>not known</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER</td>
<td>Insoluble</td>
</tr>
<tr>
<td>APPEARANCE AND ODOR</td>
<td>Clear, straw colored liquid, sweet odor</td>
</tr>
</tbody>
</table>

Fire and Explosion Hazard Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLASH POINT (METHOD USED)</td>
<td>(ASTM D 93) 96 F</td>
</tr>
</tbody>
</table>

DISCLAIMER:
"Employers should use this information only as a supplement to other information gathered by them, and should make independent judgments of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user."
Fire and Explosion Hazard Data

AUTOIGNITION TEMP. : not known
FLAMMABLE LIMITS :
LEL : not known
UEL : not known
EXTINGUISHING MEDIA : CO2 or dry chemical

SPECIAL FIRE FIGHTING PROCEDURES:
Fire fighters should wear NIOSH/MSHA approved pressure demand self contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS: none known

Health Hazard Data

THRESHOLD LIMIT VALUE : none established for mixture
EFFECTS OF OVEREXPOSURE:
Solvents can cause defatting of the skin as well as contact dermatitis in susceptible individuals. Vapors can irritate eyes, nose, and throat. Solvents can act as central nervous system depressants, exhibiting narcotic and anesthetic effects. Overexposure can cause headache, nausea, vomiting, drowsiness, diarrhea, liver and kidney damage.

Additionally, Nitrotoluene forms methemoglobin, (thereby reducing the oxygen carrying capacity of the blood), causing breathing difficulty, rapid heartbeat, lack of muscle coordination, and is believed to cause anemia.

None of the product constituents are on the NTP, IARC, or OSHA lists as potential carcinogens.

EMERGENCY AND FIRST AID PROCEDURES:
SKIN: In case of contact, immediately wash skin with soap and plenty of water. Remove contaminated clothing and shoes. Wash or clean before reuse.
EYE CONTACT: Rinse for 15 minutes and contact a physician immediately.
INHALATION: Remove from exposure to fresh air. Give artificial respiration if not breathing. If breathing is difficult, give oxygen. Contact a physician immediately.
INGESTION: Contact a physician immediately.

Reactivity Data

STABILITY : Stable
CONDITIONS TO AVOID :
Avoid heating substance where it may be inhaled, and avoid open flame.
INCOMPATIBILITY :
Oxidizers such as chlorates, perchlorates, permanganates, and nitrates.
HAZARDOUS DECOMPOSITION PRODUCTS:
Reactivity Data

CO, CO₂, HCl, phosgene, chlorine, at high temperatures, oxides of nitrogen.

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID: none known

Precautions for Safe Handling and Use

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Prevent wastage. Promptly absorb spill. Conserve and accumulate material and all mops, wipes, sand or vermiculite used to clean up a spill. Remove sources of ignition. Cover drains to prevent entry into waterways.

Wear personal protective equipment (clothing and gloves) when handling spilled materials. (See Section on Special Protection Information, below.)

WASTE DISPOSAL METHOD:
Return accumulated residues, wipes, mops, sand and vermiculite to refinery for metals recovery. Store material in appropriate containers. Follow local, state and federal regulations for packaging, labeling, manifesting, transportation and disposal.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Keep away from heat, open flame and sources of ignition. Store as flammable liquid.

Store in a cool dry place away from incompatible materials identified in the Reactivity Section.

OTHER PRECAUTIONS:
Follow good industrial hygiene and housekeeping practices. Do not eat, drink, or smoke while working with this material. Wash hands before eating, drinking, smoking, or applying cosmetics, and at the end of the work shift. Avoid contact with eyes, skin, or clothing. Do not ingest. Avoid prolonged breathing of dust. Keep container closed when not in use. Use with adequate ventilation.

Control Measures

RESPIRATORY PROTECTION (SPECIFY TYPE):
If there is a possibility that the TLVs or PELs may be exceeded, a NIOSH/MSHA approved respirator with organic vapor/dust-mist-fume filters represents the minimum level of respiratory protection. To insure proper respirator selection and use, refer to the requirements of 29 CFR 1910.134 and the latest addition of ANSI Z 88.2.

VENTILATION:
LOCAL EXHAUST:
Fume hood at point of generation with sufficient exhaust to remove material from breathing zone.
Control Measures

MECHANICAL (GENERAL): With sufficient ventilation to remove material from breathing zone.
SPECIAL: none
OTHER: none
PROTECTIVE GLOVES: solvent impermeable gloves
EYE PROTECTION: chemical safety goggles
OTHER PROTECTIVE EQUIPMENT:
Wear disposable protective clothing to facilitate recovery of any materials spilled.

References

REFERENCE:

*All chemical compounds marked with an asterisk (*) are toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372. You must notify each person to whom this mixture or trade name product is sold. This statement must remain a part of this Material Safety Data Sheet. This statement must not be detached. Any copy or redistribution of this Material Safety Data Sheet shall include this statement.

The acceptable ceiling concentration for toluene is 300 ppm. Acceptable maximum peak above the acceptable ceiling concentration for an 8 hour shift is 500 ppm for 10 minutes for toluene.