Section I (General Information)

MANUFACTURER'S NAME:
Cookson Matthey Ceramics Inc.

EMERGENCY TELEPHONE NUMBER:
Regulatory Information: (610) 648-8165 (Weekdays 8:00am-5:00pm EST)
Emergency Telephone: (610) 648-8183 (24 hrs.)

ADDRESS (NUMBER, STREET, CITY, STATE, ZIP):
1397 King Road, West Chester, PA 19380

CHEMICAL NAME AND SYNONYM:
Thinnings (Gare Gold Essence)

CAS NUMBER: 3.7726/4

GENERAL FAMILY:
Mixed solvents

FORMULA: Proprietary

DATE OF PREPARATION:
1/17/94

REVIEWED BY:
Tony Oster, Environmental, Health and Safety Technician

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.

Section II - Hazardous Ingredients

<table>
<thead>
<tr>
<th>ME</th>
<th>WTZ</th>
<th>CSH</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>amber</td>
<td>15-20</td>
<td>76-22-2</td>
<td>2 ppm</td>
<td>2 ppm</td>
</tr>
<tr>
<td>xylene</td>
<td>20-25</td>
<td>106-46-4</td>
<td>25 ppm</td>
<td>50 ppm</td>
</tr>
<tr>
<td>benzene</td>
<td>50-10</td>
<td>95-50-1</td>
<td>25 ppm</td>
<td>50 ppm (C)</td>
</tr>
<tr>
<td>xylene solvent</td>
<td>20-25</td>
<td>8052-42-3</td>
<td>100 ppm</td>
<td>500 ppm</td>
</tr>
</tbody>
</table>

Advisory Limit Value
Withheld as a trade secret.

Section III - Physical Data

MELTING POINT (INDICATE IF "F" OR "C"): Not applicable
APPROX PRESSURE (mm Hg): Not applicable
Section III - Physical Data (... Continued)

APOR DENSITY (AIR = 1):
Lesser than air

SPECIFIC GRAVITY (H2O = 1):
Greater than water

PERCENT VOLATILE BY VOLUME (%):
At least 75%

APORATION RATE (BuAc = 1):
Lower than Butyl Acetate

INSOLUBLE IN WATER:
Insoluble

PENETRANCE AND ODOR:
Vapor. Yellow liquid with solvent odor.

Section IV - Fire and Explosion Hazard Data

FLASH POINT (METHOD USED):
(Flash Point: Closed Cup)

EXTINGUISHING MEDIA:
Carbon Dioxide, Dry Chemical or Chemical Foam. Water may be ineffective, but may be used to cool exposed containers.

SOCIAL FIRE FIGHTING PROCEDURES:
Firefighters should wear Self Contained Breathing Apparatus.

USUAL FIRE AND EXPLOSION HAZARDS:
Toxic fumes of metals and vapors may be evolved in a fire.

Section V - Health Hazard Data

USUAL ROUTES OF EXPOSURE:
Skin: Yes  Eyes: No  Inhalation: Yes  Ingestion: No

OXICLOGICAL INFORMATION:
There is no specific toxicological data available for this preparation. Any toxicological information is based on individual components that make up this material.

MUTAGENIC EFFECTS:
Accep-Organic Nervous System, eye, skin, respiratory system.

Miscellaneous: Eyes, skin, respiratory system, Central Nervous System.

CARCINOGENICITY STATUS:
The following chemical(s) are listed as carcinogens by NTP, IARC, OSHA or Other:

Not applicable

REACTS ON OVEREXPOSURE:

Skin: Short term liquid or vapor contact may result in slight eye irritation. Prolonged and repeated contact may be more irritating.

Skin: Prolonged and repeated liquid contact can cause defatting and drying.
Section V - Health Hazard Data (...Continued)

of the skin, which may result in skin irritation and dermatitis.
Inhalation: Solvents can act as Central Nervous System depressants, exhibiting narcotic and anesthetic effects. Overexposure to some of these components may cause headaches, nausea, vomiting, drowsiness, diarrhea, liver and kidney damage.

EMERGENCY AND FIRST AID PROCEDURES:
Inhalation: Remove from exposure to fresh air. Give artificial respiration if not breathing. If breathing is difficult, give oxygen. Contact a physician immediately.
Skin: Remove contaminated clothing and wash skin with soap and water. Wash or clean before reuse.
Eyes: Rinse with clean water or saline solution for at least 15 minutes. Seek medical advice if irritation persists.
Ingestion: Rinse mouth with water and give water or milk to drink. Do not induce vomiting. Do not give anything to an unconscious person. Contact a physician.

Section VII - Reactivity Data

STABILITY (choose one): ( )UNSTABLE
(x)STABLE

CONDITIONS TO AVOID:
Avoid heating substance where fire, open flames, oxidizers and sources of ignition and solvent vapors are heavier than air and can accumulate, travel to sources of ignition and flash back.

INCOMPATIBILITY (MATERIALS TO AVOID):
Oxidizers such as chlorates, perchlorates, permanganates, and nitrates. If the preparation comes into contact with ammonia, explosive gold compounds may be formed. Ammoniacal gold solutions should never be stored.

Hazardous Decomposition Products:
Carbon dioxide, carbon monoxide, hydrochloric acid, oxides of sulfur and carbonaceous fumes.

Hazardous Polymerization: (choose one): ( )MAY OCCUR
(x)WILL NOT OCCUR

Section VIII - Spill or Leak Procedures

TEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Use appropriate personal protective equipment during clean up operations. Promptly absorb spill using inert materials such as sand, vermiculite or sawdust. Remove all sources of ignition and prevent from entry into drains and waterways. If a reportable quantity is exceed for any ingredients, contact the National Response Center.

SITE DISPOSAL METHODS:
Follow all Federal, State and Local regulations for removal and disposal.
Section VIII - Special Protection Information

SPIRATORY PROTECTION (SPECIFY TYPE):
NIOSH/MSHA approved respirator with Organic Vapor cartridge represents the minimum level of protection. See OSHA 29 CFR 1910.134 for respirator fit, selection and use.

VENTILATION:
LOCAL EXHAUST: Recommended
MECHANICAL (GENERAL): Acceptable for small quantities

PROTECTIVE GLOVES:
Solvent impermeable gloves
E PROTECTION:
safety glasses or goggles
Eye bath and safety shower

Section IX - Special Precautions

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
Store in sealed containers in cool, dry place. Keep away from heat and sources of ignition.

OTHER PRECAUTIONS:
do not eat, drink or smoke while using this material. Follow good industrial hygiene practices.

Section X - Regulatory Information

REGULATORY INFORMATION:

OSHA Status: All components are on Inventory
SARA Title III Section 313 Reportable Chemicals:
3-Dichlorobenzene

Section XI - Right-to-Know Information

RIGHT-TO-KNOW INFORMATION:

Component

CAS# 76-22-2
3-Dichlorobenzene
99-84-1
3-Dichloroaniline
80-52-4
Stoddard Solvent
80-52-4
Terpene hydrocarbon mixture
TSCA 90104-19-5028
Section XI - Right-to-Know Information (... Continued).

California Proposition 65:
This material does not contain any ingredients that are known to the State of California to cause cancer or reproductive toxicity.

Section XII - References

REFERENCES:
Barclays California Code of Regulations.
MDSHS Pocket Guide to Chemical Hazards.
The Sigma Aldrich Library of Regulatory and Safety Data.
ACGIH TLV for Chemical Substances and Physical Agents.