Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard.

Identity (As used on Label and List)
Immersion Gold CF Part A

Section 1
Manufacturer's Name
TRANSENTE COMPANY, INC.
Address (Number, Street, City, State and ZIP Code)
DANVERS INDUSTRIAL PARK

10 ELECTRONICS AVENUE
DANVERS MA 01923

Emergency Telephone Number
CHEMTREC 1-800-424-9300 (24 hrs)
Telephone Number for Information
TEL 978-777-7860 FAX 978-739-5640

Date Prepared
April 22, 2004
Preparer (optional)
Christopher Christuk

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section II - Hazardous Ingredients / Identity Information
Hazardous Components (Specific Chemical Identity; Common Name(s))
OSHA PEL ACGIH TLV Other Limits Recommended % (optional)

<table>
<thead>
<tr>
<th>ETHYLENEDIAMINE</th>
<th>CAS# 000107-15-3</th>
<th>10ppm</th>
<th>10ppm</th>
<th>&lt;5%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Fluoride</td>
<td>CAS# 7789-23-3</td>
<td>Not Established</td>
<td>NE</td>
<td>&lt;5%</td>
</tr>
</tbody>
</table>

BALANCE AQUEOUS-NON HAZARDOUS

THIS DOCUMENT IS PREPARED PURSUANT TO THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)
IN ADDITION, OTHER SUBSTANCES NOT HAZARDOUS PER THIS OSHA STANDARD MAY BE LISTED. WHERE PROPRIETY
INGREDIENT SHOWS, THE IDENTITY MAY BE MADE AVAILABLE AS PROVIDED IN THIS STANDARD.

Section III - Physical / Chemical Characteristics

** OF MIXTURE  * OF ETHYLENEDIAMINE

<table>
<thead>
<tr>
<th>Boiling Point</th>
<th>**&gt;=240°</th>
<th>*239F,115C</th>
<th>Specific Gravity (H2O = 1)</th>
<th>**&gt;=1.0</th>
<th>*0.393-0.906</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Pressure (mm Hg.)</td>
<td>**N/A</td>
<td>*10mmHg @20</td>
<td>Melting Point</td>
<td>**N/A</td>
<td>*N/A</td>
</tr>
<tr>
<td>Vapor Density (AIR = 1)</td>
<td>**N/A</td>
<td>*2.07</td>
<td>Evaporation Rate (Butyl Acetate = 1)</td>
<td>**N/A</td>
<td>*N/A</td>
</tr>
</tbody>
</table>

Solubility in Water **MIXES COMPLETELY  *MIXES COMPLETELY

Appearance and Odor ** Clear, * COLORLESS LIQUID; AMMONIACAL ODOR

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) **APPROX. 150°F *NA:Non-flammable

<table>
<thead>
<tr>
<th>Flammable Limits</th>
<th>NE</th>
<th>LEL</th>
<th>NE</th>
<th>UEL 14.2% @100°C</th>
</tr>
</thead>
</table>

Extinguishing Media Use media appropriate for surrounding fire
Special Fire Fighting Procedures Wear NIOSH approved self-contained breathing apparatus

Unusual Fire and Explosion Hazards N/A

Section V - Reactivity Data
Stability Unstable

Conditions to Avoid
Incompatibility (Materials to Avoid)  
Strong acids.

Hazardous Decomposition or Byproducts  
NITROGEN OXIDES WHEN BURNED.

Hazardous Polymerization  
May Occur  
Conditions to Avoid  
May Not Occur  
X

Section VI - Health Hazard Data

Route(s) of Entry:  
Inhalation?  
YES  
Skin?  
YES  
Ingestion?  
YES

Health Hazards (Acute and Chronic)  
REPEATED EXCESSIVE EXPOSURES MAY CAUSE LIVER AND KIDNEY INJURY. DID NOT CAUSE CANCER IN LONG-TERM ANIMAL STUDIES. BOTH DEFECTS ARE UNLIKELY. EXPOSURES HAVING NO EFFECT ON THE MOTHER SHOULD HAVE NO EFFECT ON THE FETUS. DID NOT CAUSE BIRTH DEFECTS IN ANIMALS; OTHER EFFECTS WERE SEEN IN THE FETUS ONLY AT DOSES WHICH CAUSED TOXIC EFFECTS TO THE MOTHER. IN ANIMAL STUDIES, HAS SHOWN NOT TO INTERFERE WITH REPRODUCTION. PREPONDERANCE OF NEGATIVE DATA INDICATES MINIMAL OR NO MUTAGENIC POTENTIAL.

Carcinogenicity  
NTP?  
N/A  
IARC Monographs?  
N/A  
OSHA Regulated?  
N/A

Signs And Symptoms of Exposure  
EYE CONTACT: MAY CAUSE IRRITATION

SKIN CONTACT & ABSORPTION: SHORT SINGLE EXPOSURE MAY CAUSE IRRITATION.

INGESTION: SINGLE DOSE ORAL TOXICITY IS LOW TO MODERATE. INGESTION MAY CAUSE GASTROINTESTINAL IRRITATION OR ULCRATION. MAY CAUSE SEVERE BURNS OF MOUTH AND THROAT. THE LD50 IS 1460mg/kg FOR RATS AND 470mg/kg FOR GUINEA PIGS.

INHALATION: EXCESSIVE VAPOR CONCENTRATIONS ARE ATTAINABLE AND COULD BE HAZARDOUS ON SINGLE EXPOSURE. EXCESSIVE EXPOSURE MAY CAUSE SEVERE IRRITATION TO THE UPPER RESPIRATORY TRACT. MAY CAUSE RESPIRATORY SENSITIZATION IN SUSCEPTIBLE INDIVIDUALS.

Medical Conditions  
Generally Aggravated by Exposure  
N/A

Emergency and First Aid Procedures  
EYES: IMMEDIATE AND CONTINUOUS IRRIGATION WITH FLOWING WATER FOR AT LEAST 15 MINUTES. PROMPT MEDICAL CONSULTATION IS ESSENTIAL.

SKIN: IN CASES OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. CALL A PHYSICIAN IF IRRITATION PERSISTS. WASH CLOTHING BEFORE REUSE. DESTROY CONTAMINATED CLOTHING OR OTHER ARTICLES THAT CANNOT BE DECONTAMINATED.

INGESTION: DO NOT INDUCE VOMITING. GIVE LARGE AMOUNTS OF WATER OR MILK IF AVAILABLE AND TRANSPORT TO MEDICAL FACILITY.

INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT A PHYSICIAN.

Section VII - Precautions For Safe Handling And Use

Steps to Be Taken in Case Material is Released or Spilled  
LARGE SPILLS: DIKE UP AND DILUTE WITH WATER. PUMP INTO APPROPRIATE CONTAINERS. SMALL SPILLS: DILUTE WITH WATER AND RECOVER OR USE NON-COMBUSTIBLE ABSORBENT MATERIAL/SAND AND SHOVEL INTO SUITABLE CONTAINER.

Waste Disposal Method  
LARGE QUANTITIES COULD BE RECOVERED. OTHERWISE, INCINERATE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS. DO NOT DUMP INTO SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER.

Precautions to be taken in handling and storing  
EXPOSURE GUIDELINES:
ACGIH TLV AND OSHA PEL ARE 10ppm. (ETHYLENEDIAMINE)
GROUND ALL TRANSFER EQUIPMENT. STORE BELOW 120F, 49C AND ABOVE 51F, 11C. HOLD BULK STORAGE UNDER NITROGEN BLANKET. COPPER AND ALLOYS OF COPPER SHOULD NOT BE USED AS THEY ARE QUICKLY CORRODED.

Other Precautions

Section VIII - Control Measures

Respiratory Protection (Specify Type)  
ATMOSPHERIC LEVELS SHOULD BE MAINTAINED BELOW THE EXPOSURE GUIDELINE. WHEN RESPIRATORY PROTECTION IS NEEDED USE AN APPROVED AIR-PURIFYING RESPIRATOR.

Ventilation  
Local Exhaust  
X  
Special  
Mechanical (General)  
X  
Other

Protective Gloves  
RUBBER

Eye Protection  
CHEMICAL GOGGLES

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