Material Safety Data Sheet

IDENTITY (As Used on Label and List)
Gare underglazes UG-2100 series

Section I - Additional Information

Manufacturer's Name
Gare, Inc.

Address (Number, Street, City, State, and ZIP Code)
165 Rosemont Street
Haverhill, MA 01830

Emergency Telephone Number
Regional Poison Control Center-Poisonex System
Telephone Number for Information
508-373-9131

Date Prepared
June 1989

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))
OSHA PEL
ACGIH TLV
Other Limits
Recommended
% (optional)

Products bearing the AP Approved Product Seal of The Art and Craft Materials Institute, Inc. are certified in a program of toxicological evaluation by a medical expert to contain no materials in sufficient quantities to be toxic or injurious to humans or to cause acute or chronic health problems. This program is reviewed by the Institute’s Toxicological Advisory Board. These products are certified by the Institute to be labeled in accordance with the voluntary chronic hazard labeling standard ASTM D-4236.

Section III - Physical/Chemical Characteristics

Boiling Point
Water
212°F
Specific Gravity (H₂O = 1)
1.3-1.5

Vapor Pressure (mm Hg)
N/A
Melting Point
above 1000°F

Vapor Density (AIR = 1)
N/A
Evaporation Rate
(Butyl Acetate = 1)
as water

Solubility in Water
Essentially insoluble.

Appearance and Odor
Colored liquid, practically odorless.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)
Will not burn
Flammable Limits
N/A
LEL
N/A
UEL
N/A

Extinguishing Media
Not combustible. This is a water based product.

Special Fire Fighting Procedures
None

Unusual Fire and Explosion Hazards
None
Section V — Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>Unstable</th>
<th>Conditions to Avoid</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stable</td>
<td></td>
<td>X</td>
<td></td>
</tr>
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</table>

Incompatibility (Materials to Avoid) | None known |

Hazardous Decomposition or Byproducts | N/A |

Hazardous Polymerization

<table>
<thead>
<tr>
<th>May Occur</th>
<th>Conditions to Avoid</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Will Not Occur</td>
<td>X</td>
<td></td>
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</table>

Section VI — Health Hazard Data

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

- non toxic
- non toxic

Health Hazards (Acute and Chronic) non toxic

Carcinogenicity: NTP? IARC Monographs? OSHA Regulated?

- not suspected

Signs and Symptoms of Exposure N/A

Medical Conditions

Generally Aggravated by Exposure: Mechanically abrasive to the eye. Overexposure may cause some skin dryness.

Emergency and First Aid Procedures

Eye contact: Flush with water for 15 minutes.

Skin contact: Wash with soap and water.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled Clean up with paper towels and sponge.

Waste Disposal Method Dispose of paper towels in trash and wash out sponge.

Precautions to Be Taken in Handling and Storing Keep bottle covers properly tightened.

Other Precautions N/A

Section VIII — Control Measures

Respiratory Protection (Specify Type) Do not inhale mist if spraying or making dust. Use NIOSH approved respirator for dusts & mists

Ventilation

- Local Exhaust
  - When firing kilns.
  - Mechanical (General)
    - Exhaust spray and dust with spray booth.

Special Use proper respirator when spraying.

Other

Protective Gloves

Only if irritation occurs. Eye Protection Avoid eye contact.

Other Protective Clothing or Equipment Wear apron or smock.

Work/Hygienic Practices Maintain personal and work area cleanliness.
Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

IDENTITY (As Used on Label and List) Care Underglazes
UQ-2179, 2181

Section I See other data sheets for underglazes that require different or additional information.

Manufacturer's Name Care, Inc.
Address (Number, Street, City, State, and ZIP Code) 165 Rosemont Street Haverhill, MA 01831

Emergency Telephone Number Regional Poison Control-Poison Index System
Telephone Number for Information 508-373-9131
Date Prepared January 1990
Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

<table>
<thead>
<tr>
<th>Hazardous Components (Specific Chemical Identity; Common Name(s))</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits Recommended</th>
<th>% (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead</td>
<td>CAS# 1317-36-8</td>
<td>0.05 mg/m³</td>
<td>0.15 mg/m³</td>
<td>0.19 - 0.6</td>
</tr>
<tr>
<td>Cadmium</td>
<td>CAS# 1306-19-0</td>
<td>0.2 TWA* - 0.6 mg/m³ ceiling</td>
<td>0.05 mg/m³</td>
<td>0.04 - 0.22</td>
</tr>
</tbody>
</table>

*Time weighted average

Section III — Physical/Chemical Characteristics

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<td>Specific Gravity (H₂O = 1)</td>
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<td>N/A</td>
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<td>Melting Point</td>
<td>above 1000°F</td>
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<td>Vapor Density (Air = 1)</td>
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<td>Evaporation Rate (Butyl Acetate = 1)</td>
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<td>Appearance and Odor</td>
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Section IV — Fire and Explosion Hazard Data

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<td>Flash Point (Method Used)</td>
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<tr>
<td>Flammable Limits</td>
<td>N/A</td>
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<td>LEL</td>
<td>N/A</td>
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<td>UEL</td>
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Extinguishing Media
Not combustible. This is a water based product.

Special Fire Fighting Procedures None

Unusual Fire and Explosion Hazards
None

(Reproduce locally)

OSHA 174, Sept. 1985
Section V — Reactivity Data

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Incompatibility (Materials to Avoid) None known

Hazardous Decomposition or Byproducts N/A

Hazardous Polymerization

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Section VI — Health Hazard Data

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

Yes No Yes

Health Hazards (Acute and Chronic)
Over exposure to lead by ingestion or inhalation may cause anemia, nervous system or kidney damage, or harm to the developing fetus. Over exposure to cadmium may cause kidney or lung damage.

Carcinogenicity: NTP? IARC Monographs? OSHA Regulated?
Cadmium — suspected carcinogen. Lead cancer agent based upon experimental data.

Signs and Symptoms of Exposure
Weight loss, stomach cramps, loss of coordination, joint and muscle pains.

Medical Conditions Generally Aggravated by Exposure
Mechanically abrasive to the eye. Over exposure may cause some skin dryness.

Emergency and First Aid Procedures
For symptoms of over exposure by ingestion or inhalation, seek immediate medical attention.

Eye Contact: Flush with water for 15 minutes. Skin contact: Wash with soap-water.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled
Clean up with dry and damp paper towels.

Waste Disposal Method
Follow Federal, State and Local Regulations for disposal.

Precautions to Be Taken in Handling and Storing

Other Precautions
If pregnant or contemplating pregnancy, use only with professional supervision or avoid use. Maintain personal and work area cleanliness. Do not create dust.

Section VIII — Control Measures
If used in a manner that would generate dust or mist.

Respiratory Protection (Specify Type)
Do not inhale mist or dust. Use a NIOSH approved respirator for lead dust and mist.

Ventilation
Local Exhaust
When firing kilns.
Mechanical (General)
Proper spray booth with filters.
Special
Such as 3M #8710 or equivalent.
Other

Protective Gloves
If irritation occurs or over cuts and wounds
Eye Protection
Avoid eye contact.

Other Protective Clothing or Equipment

Work/Hygienic Practices
Wash thoroughly. If spraying is normal or major portion of work routine regular blood lead testing by your doctor is rec...