SECTION 1
CHEMICAL PRODUCT AND IDENTIFICATION

PRODUCT: IVORY Finish Lime
CHEMICAL FAMILY: Hydrated Lime (Calcium magnesium hydroxide, hydrated)

SECTION 2
COMPOSITION, INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>WT%</th>
<th>TLV (mg/m³)</th>
<th>PEL (mg/m³)</th>
<th>CAS NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrated Lime CaMg(OH)₄</td>
<td>&gt;95</td>
<td>5</td>
<td>5</td>
<td>39445-23-3</td>
</tr>
<tr>
<td>Crystalline Silica</td>
<td>&lt;5</td>
<td>0.05(R)</td>
<td>0.1(R)</td>
<td>14808-60-7</td>
</tr>
</tbody>
</table>

(T) – Total  (R) – Respirable  (NE) – Not Established  mmpfc - million particles per cubic foot of air
Respirable crystalline silica: IARC: Group 1 carcinogen, NTP: Known human carcinogen. The weight percent for silica represents total quartz and not the respirable fraction.

All ingredients of this product are included in the U.S. Environmental Protection Agency’s Toxic Substances Control Act Chemical Substance Inventory. All components of this product are included in the Canadian Domestic Substances List (DSL).

SECTION 3
HAZARD IDENTIFICATION

INFORMATION FOR HANDLING AND IDENTIFICATION OF CHEMICAL HAZARDS

NFPA Ratings:
Health: 3 Fire: 0 Reactivity: 0
HIMS Ratings: Health: *3

PERSONAL PROTECTION: Use eye and skin protection. Use NIOSH/MSHA-approved respiratory protection when necessary.

EMERGENCY OVERVIEW: This product is not expected to produce any unusual hazards during normal use. Exposure to high dust levels may irritate the skin, eyes, nose, throat, or upper respiratory tract. Hydrated lime is strongly alkaline and can cause severe injury. Contact with eyes or skin can cause irritation and possible irreversible tissue damage, corrosion damage, chemical burning and corneal damage. Wear eye protection, gloves, long-sleeved shirts and pants to prevent skin contact. Particulate will also cause mechanical irritation. Inhalation of dust can cause severe upper respiratory irritation. Contact lenses should not be worn when working with hydrated lime.
SECTION 3 HAZARD IDENTIFICATION (continued)

POTENTIAL HEALTH EFFECTS

ACUTE:

Eyes: This is a strongly alkaline material, which is very irritating to eyes. Hydrated lime in various forms is one of the commonest causes of severe chemical burns of the eye, commonly known as "lime burns". If burning, redness, itching, pain or other symptoms persist or develop, consult physician.

Skin: Chemical burns or irritation of skin may result due to hydrated lime content. Direct, prolonged or repeated contact with the skin may cause dermatitis. May dry skin. If skin contact occurs, rinse with water until free of material, then wash skin thoroughly with mild soap and water. If irritation persists, consult physician.

Inhalation: Inhalation of dusts from this product may irritate the nose, throat, lungs, and upper respiratory tract. Hydrated lime is irritating to respiratory tract and can be damaging to the mucus membrane of the upper respiratory tract. Persons subjected to large amounts of this dust will be forced to leave area because of coughing, sneezing and nasal irritation. Labored breathing may occur after excessive inhalation. If respiratory symptoms persist, consult physician.

Ingestion: Unlikely to occur, but may be corrosive to the digestive tract. See Emergency and First Aid - Ingestion below.

CHRONIC:

Eyes: None known.

Skin: Chronic dermatitis may develop with repeated contact with alkalies.

Ingestion: No known effects.

Inhalation: Exposures to respirable crystalline silica are not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing.

Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration.

TARGET ORGANS: Eyes, skin and respiratory system.

PRIMARY ROUTES OF ENTRY: Inhalation, eyes and skin contact.

SECTION 4
FIRST AID MEASURES

FIRST AID PROCEDURES

Eyes: If eye contact occurs, immediately flush eyes with copious amounts of water, occasionally lifting the lower and upper lids. Get medical attention immediately. Contact lenses should not be worn when working with this material.

Skin: Wash skin with plenty of water, followed with mild soap and water. If irritation persists, see physician. A commercially available hand lotion may be used to treat dry skin areas. If skin has become cracked, take appropriate action to prevent infection and promote healing. Remove contaminated clothing.

Inhalation: Remove to fresh air. Leave the area of dust exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however if conditions warrant, contact physician.

Ingestion: This product is not intended to be ingested or eaten. Get medical attention immediately due to alkali content.

MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED: Pre-existing upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema and asthma. Pre-existing skin diseases such as, but not limited to, rashes and dermatitis.
SECTION 5
FIRE FIGHTING MEASURES

General Fire Hazards: Not expected to burn.
Extinguishing Media: Water or use extinguishing media appropriate for surrounding fire.
Special Fire Fighting Procedures: Wear appropriate personal protective equipment (See section 8).
Unusual Fire & Explosion Hazards: None
Hazardous Combustion Products: Above 1450° C - decomposes to calcium oxide (CaO) and sulfur dioxide (SO₂)
Flash Point: None Known
Method Used: Not Applicable
Auto Ignition: Not Applicable
Upper Flammable Limit (UFL): Not Applicable
Flammability Classification: Not Applicable
Lower Flammable Limit (LFL): Not Applicable
Rate of Burning: Not Applicable

SECTION 6
ACCIDENTAL RELEASE MEASURES

CONTAINMENT:
No special precautions. Wear appropriate personal protection (See Section 8).

CLEAN-UP:
Use normal clean up procedures. Wear appropriate protective equipment. Ventilate area. If dry, shovel or sweep up material from spillage and place collected material into a container for recovery or waste disposal. Avoid dust generation. Avoid inhalation of dust and contact with eyes and skin. Maintain proper ventilation. If vacuum is used to collect dust, use an industrial vacuum cleaner with a high efficiency air filter. If sweeping is necessary, use dust suppressant. Do not use compressed air for clean up. These procedures will help minimize potential exposures. If washed down, may plug drains. If already mixed with water, contain if possible and neutralize with dilute acid, scrape up and place in container.

DISPOSAL:
Dispose of material in accordance with Federal, State and Local regulations. Disposal waste hydrated lime must never be discharged directly into sewers or surface water. Plaster slurry may plug drains.

SECTION 7
HANDLING AND STORAGE

HANDLING:
Minimize dust generation and accumulation. Avoid breathing dust. Wear the appropriate respiratory protection against dust in poorly ventilated areas and if TLV is exceeded (see Sections 2 and 8). Avoid dust contact with eyes. Wear the appropriate eye protection against dust (See Section 8).
Use good safety and industrial hygiene practices.

STORAGE:
Store at room temperature in a dry location.
Keep containers closed when not in use.
Moisture and long storage causes lumping and makes lime less reactive.
SECTION 8
EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:
Provide ventilation sufficient to control airborne dust levels especially respirable crystalline silica.
If user operations generate airborne dust, use ventilation to keep dust concentrations below permissible exposure limits (See Section 2).
Where general ventilation is inadequate, use process enclosures, local exhaust ventilation, or other engineering controls to control dust levels below permissible exposure limits (see Section 2). If engineering controls are not possible, wear a properly fitted NIOSH/MSHA-approved particulate respirator.

RESPIRATORY PROTECTION:
Wear a NIOSH/MSHA-approved respirator equipped with particulate cartridges when dusty in poorly ventilated areas, and if TLV is exceeded. A respiratory program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

OTHER PERSONAL PROTECTIVE EQUIPMENT:
Eye/face: Wear eye protection (safety glasses or goggles) to avoid contact and particulate irritation of the eye.
Skin: Wear gloves, long-sleeved shirts and pants to prevent repeated or prolonged skin contact. Barrier creams may be applied to face, neck, wrist and hands when skin is exposed to help prevent drying of skin. Do not rely on barrier creams for the only skin protection or use in place of gloves.

General: Selection of Personal Protective Equipment will depend on environmental working conditions and operations.

SECTION 9
PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White to off white</td>
</tr>
<tr>
<td>Physical State</td>
<td>Solid (powder)</td>
</tr>
<tr>
<td>Odor</td>
<td>Low to no odor</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Solubility (H2O)</td>
<td>0.07-0.18 g/100 g solution</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not Available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>580 °C</td>
</tr>
<tr>
<td>Softening Point</td>
<td>Not Available</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>Not Available</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Evaporation Rate (BuAc = 1)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Percent Volatile</td>
<td>Zero</td>
</tr>
<tr>
<td>VOC Content</td>
<td>Zero</td>
</tr>
<tr>
<td>Molecular Weight</td>
<td>~74 g/mole</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>~25-50 lb/ft³</td>
</tr>
<tr>
<td>Specific Gravity (H2O = 1)</td>
<td>2.24</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>-</td>
</tr>
<tr>
<td>Viscosity</td>
<td>-</td>
</tr>
<tr>
<td>Solubility (H2O)</td>
<td>-</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>-</td>
</tr>
<tr>
<td>Melting Point</td>
<td>-</td>
</tr>
<tr>
<td>Softening Point</td>
<td>-</td>
</tr>
<tr>
<td>Freezing Point</td>
<td>-</td>
</tr>
<tr>
<td>Vapor Density (Air = 1)</td>
<td>-</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>-</td>
</tr>
<tr>
<td>Evaporation Rate (BuAc = 1)</td>
<td>-</td>
</tr>
</tbody>
</table>

SECTION 10
CHEMICAL STABILITY AND REACTIVITY

STABILITY: Stable.
CONDITIONS TO AVOID: Contact with incompatibles.
INCOMPATIBILITY: None known.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION: Above 1450° C - decomposes to calcium oxide (CaO) and sulfur dioxide (SO₂)
SECTION 11
TOXICOLOGICAL INFORMATION

ACUTE EFFECTS:
Direct contact may cause eye, skin and/or respiratory irritation.
LD_{50}: Not Available for product.   LC_{50}: Not Available for product.

CHRONIC EFFECTS / CARCINOGENICITY:
Crystalline silica: Exposures to respirable crystalline silica are not expected during the normal use of this product; however, actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer. The development of silicosis may increase the risks of additional health effects. The risk of developing silicosis is dependent upon the exposure intensity and duration. In June, 1997, IARC classified crystalline silica (quartz and cristobalite) as a human carcinogen. In making the overall evaluation, the IARC Working Group noted that carcinogenicity in humans was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs. IARC states that crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).

SECTION 12
ECOLOGICAL INFORMATION

ENVIRONMENTAL TOXICITY: Hydrated lime is expected to be toxic to fish due to its high alkalinity. Discharge of large quantities directly into waterways would be expected to cause significant fish kills.
Ecotoxicity value: Not determined.

SECTION 13
DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
Dispose of material in accordance with Federal, State, Provincial, and Local regulations. Consult with environmental regulatory agencies for guidance on acceptable disposal practices. Never discharge directly into sewers or surface waters.

SECTION 14
TRANSIT NFORMATION

U.S. DOT INFORMATION: Not a hazardous material per DOT shipping requirements. Not classified or regulated.
Shipping Name: Same as product name.
Hazard Class: Not classified
UN/NA #: None. Not classified.
Packing Group: None.
Label (s) Required: Not applicable.
GGVSec/MDG-Code: Not classified.
ICAO/IATA-DGR: Not applicable.
RID/ADR: None
ADNR: None
SECTION 15
REGULATORY INFORMATION

UNITED STATES REGULATIONS

All ingredients of this product are included in the U.S. Environmental Protection Agency’s Toxic Substances Control Act Chemical Substance Inventory.

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>WT%</th>
<th>302</th>
<th>304</th>
<th>313</th>
<th>CERCLA</th>
<th>CAA Sec. 112</th>
<th>RCRA Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrated Lime CaMg(OH)₄</td>
<td>&gt;95</td>
<td>NL</td>
<td>NL</td>
<td>NL</td>
<td>NL</td>
<td>NL</td>
<td>NL</td>
</tr>
<tr>
<td>Crystalline Silica</td>
<td>&lt;5</td>
<td>NL</td>
<td>NL</td>
<td>NL</td>
<td>NL</td>
<td>NL</td>
<td>NL</td>
</tr>
</tbody>
</table>

Key:  NL = Not Listed

SARA Title III Section 302 (EPCRA) Extremely Hazardous Substances: Threshold Planning Quantity (TPQ)
SARA Title III Section 304 (EPCRA) Extremely Hazardous Substances: Reportable Quantity (RQ)
SARA Title III Section 313 (EPCRA) Toxic Chemicals: X = Subject to reporting under section 313
CERCLA Hazardous Substances: Reportable Quantity (RQ)
CAA Section 112 (r) Regulated Chemicals for Accidental Release Prevention: Threshold Quantities(TQ)
RCRA Hazardous Waste: RCRA hazardous waste code

Food and Drug Administration [CFR Title 21, v.3, sec 184.1205] – Calcium Hydroxide is Generally Recognized as Safe (GRAS).

CANADIAN REGULATIONS

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. All components of this product are included in the Canadian Domestic Substances List (DSL).

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>WT%</th>
<th>IDL Item #</th>
<th>WHMIS Classification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrated Lime CaMg(OH)₄</td>
<td>&gt;95</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Crystalline Silica</td>
<td>&lt;5</td>
<td>1406</td>
<td>D2A</td>
</tr>
</tbody>
</table>

IDL Item #: Canadian Hazardous Products Act – Ingredient Disclosure List Item #
WHMIS Classification: Workplace Hazardous Material Information System

CARCINOGENICITY CLASSIFICATION OF INGREDIENT(S)

All substances listed are associated with the nature of the raw materials used in the manufacture of this product and are not independent components of the product formulation. All substances, if present, are at levels well below regulatory limits. See Section 11: Toxicology Information for detailed information.

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>IARC</th>
<th>NTP</th>
<th>ACGIH</th>
<th>CAL- 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respirable Crystalline Silica</td>
<td>1</td>
<td>1</td>
<td>A2</td>
<td>Listed</td>
</tr>
</tbody>
</table>

IARC – International Agency for Research on Cancer (World Health Organization)
1- Carcinogenic to humans
2A – Probably carcinogenic to humans
2B – Possibly carcinogenic to humans
3 - Not classifiable as a carcinogen
4 – Probably not a carcinogen
SECTION 15 REGULATORY INFORMATION (continued)

NTP – National Toxicology Program (Health and Human Services Dept., Public Health Service, NIH/NIEHS)
1- Known to be carcinogen
2- Anticipated to be carcinogens

ACGIH – American Conference of Governmental Industrial Hygienists
A1 – Confirmed human carcinogen
A2 – Suspected human carcinogen
A3 – Animal carcinogen
A4 - Not classifiable as a carcinogen
A5 – Not suspected as a human carcinogen

CAL-65 – California Proposition 65 “Chemicals known to the State of California to Cause Cancer”

SECTION 16
OTHER INFORMATION

Label Information

ΔWARNING!
Dust created from product may cause eye, skin, nose, throat or upper respiratory irritation. Avoid inhalation of dust and eye contact. This material is strongly alkaline and contact with dust or when wetted can cause burns or irritation to the skin, eyes, nose, throat or upper respiratory system. Wear eye protection, gloves, long-sleeved shirts and pants to prevent skin contact. If eye contact occurs, flush thoroughly with water for 15 minutes. If irritation persists, call physician. Use in a well-ventilated area. Wear a NIOSH/MSHA-approved respirator when dusty. Wash thoroughly with soap and water after use. Do not ingest. If ingested, call physician. Product safety information: (800) 507-8899 or www.usg.com
KEEP OUT OF REACH OF CHILDREN.

Key/Legend

TLV Threshold Limit Value
PEL Permissible Exposure Limit
CAS Chemical Abstracts Service (Registry Number)
NIOSH National Institute for Occupational Safety and Health
MSHA Mine Safety and Health Administration
OSHA Occupational Health and Safety Administration
ACGIH American Conference of Governmental Industrial Hygienists
IARC International Agency for Research on Cancer
DOT United States Department of Transportation
EPA United States Environmental Protection Agency
NFPA National Fire Protection Association
HMIS Hazardous Materials Identification System
PPE Personal Protection Equipment
TSCA Toxic Substances Control Act
DSL Canadian Domestic Substances List
NDSL Canadian Non-Domestic Substances List
SARA Superfund Amendments and Reauthorization Act of 1986
RCRA Resource Conservation and Recovery Act
CERCLA Comprehensive Environmental Response, Compensation and Liability Act of 1980
UN/NA# United Nations/North America number
SECTION 16 OTHER INFORMATION (continued)

CFR                      Code of Federal Regulations
WHMIS                   Workplace Hazardous Material Information System

Prepared by:
Product Safety
USG Corporation
550 W Adams St
Chicago, Illinois 60661-3676

END