02902-0002

# MATERIAL SAFETY DATA SHEET

## Grafix Incredible Liquid Frisket™

August 1, 2010

### SECTION 1 -- PRODUCT IDENTIFICATION

| | |
|---|---|
| Product Name: | Grafix Incredible Liquid Frisket |
| Chemical Name: | polymer emulsion in water |
| Chemical Family: | polymer emulsion in water |
| 24-hour Emergency Phone: | Transportation Emergency: (Chemtrec) 800-424-9300 |
| Manufacturer's Name: | Ore Corporation |
| Manufacturer's Address: | 19301 Shaker Blvd., Cleveland, OH 44122 |
| NFPA Hazard Rating: | Health 1, Flammability 0, Reactivity 0 |
| HMIS Hazard Rating: | Health 1, Flammability 0, Reactivity 0 |
| OSHA Hazardous: | No |

### SECTION 2 – CHEMICAL COMPOSITION

| Chemical Name: | Common Name: | CAS# | % (by wt) | Exposure Limits: |
|---|---|---|---|---|
| Ammonia | Ammonia | 7664-41-7 | < 0.3 | PEL 50 ppm<br>TLV 25 ppm<br>ACGIH STEL 35 ppm |
| Nonhazardous as per 29 CFR 1910.1200 | none | none | > 99 | none established |

### SECTION 3 – HAZARD IDENTIFICATION

| | |
|---|---|
| Primary Route of Exposure: | Eye contact, inhalation |
| Signs and Symptoms of Exposure: | Due to ammonia presence, contact with eye may result in irritation, redness, tearing and blurred vision; and respiratory tract may become irritated. Prolonged skin contact with product may result in irritation. |
| Medical Conditions Aggravated By Exposure: | Impaired pulmonary function. |
| Chronic Effects: | None know. |
| Carcinogenicity: | None |

### SECTION 4 – FIRST AID MEASURES

First Aid Procedures: Eye contact ... wash eyes immediately with large amounts of water. Get medical attention. Skin contact – flush skin with large amounts of water. If irritation is present after washing, get medical attention. Inhalation: move person to fresh air. Ingestion – seek immediate medical attention. The polymer will coagulate (solidify) in the digestive tract.

### SECTION 5 – FIRE FIGHTING PROCEDURES

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|---|---|
| Suitable Extinguishing Media: | Foam, water, dry chemical, or carbon dioxide. |
| Hazardous Combustion Products: | Carbon dioxide and carbon monoxide. |
| Recommended Fire Fighting Procedures: | Use SCBA and ordinary fire-fighting equipment. |
| Unusual Fire and Explosion Hazards: | none known |

## SECTION 6 – PRECAUTIONS FOR SAFE HANDLING AND USE

| | |
|---|---|
| Steps to be taken in case material is released or spilled: | Flush minor spills or leaks with water. Larger spills can be coagulated with 0.3% calcium chloride |
| Precautions to be taken in handling and storage: | Avoid inhalation of ammonia vapors. Keep container closed when not in use. |

## SECTION 7 – EXPOSURE CONTROLS/PERSONAL PROTECTION

| | |
|---|---|
| Ventilation: | no special ventilation requirements unless ammonia concentration must be controlled. |
| Respiratory Protection: | use effective respiratory protection to protect against ammonia vapors if exposure limit is exceeded. |
| Eye Protection: | goggles or face shield if splashing is a possibility. |
| Skin Protection: | neoprene or nitrile gloves to avoid contact with product. |
| Other: | none required |
| Work/Hygenic Practices: | wash exposed skin prior to eating, drinking or smoking and at the end of each shift. Wash contaminated clothing prior to reuse. |

## SECTION 8 – PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|---|---|---|
| Appearance and odor: | white, milky liquid with ammonia odor | | |
| Flash Point & method: | not applicable | Lower explosive limit: | none |
| Evaporation rate: | 1 (water = 1) | Upper explosive limit: | none |
| pH (undiluted product): | not applicable | Boiling point: | 100 degrees C |
| Solubility in water: | dispersible | Melting point: | not applicable |
| Vapor Density: | 0.63 for water phase | Specific gravity: | >0.93 |
| Vapor Pressure: | 760 mm Hg for water | Percent volatile: | unknown |

## SECTION 9 -- STABILITY AND REACTIVITY

| | |
|---|---|
| Thermal stability: | stable |
| Hazardous polymerization: | will not occur |
| Conditions to avoid: | contact with acids or salts will cause coagulation of polymer. However, this is not hazardous. |

## SECTION 10 – TRANSPORTATION

Regulatory Agency: not regulated

| | |
|---|---|
| Proper shipping name: | not applicable |
| Hazard classification: | not applicable |
| Identification number: | not applicable |
| Labels required: | not applicable |

Other requirements: not applicable

## SECTION 11 – MISCELLANEOUS INFORMATION

| | |
|---|---|
| Additional comments: | The health hazards associated with this product are due primarily to the presence of ammonia. Ammonia may be released during handling of the product in an open container. Ammonia has an extremely low threshold odor (<1ppm). Therefore, the odor of ammonia will be noticeable and may produce discomfort, even though the airborne concentrations may be below the OSHA PEL or |

the ACGIH TLV. The user must determine the personal exposure to ammonia in his/her facility.

Date of Previous MSDS: 5/29/03
Changes since previous MSDS: complete revision
Telephone number for additional information: 216-581-9050

## DISCLAIMER

The information contained herein is based on data considered accurate which has been obtained from other companies and organizations. However, while Ore Corporation believes the data set forth herein are accurate as of the date below, Ore Corporation makes no warranty thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification. Revisions of this MATERIAL SAFETY DATA SHEET are issued as additional information becomes available or as regulations change, and only the most recent revision should be used. Ore Corporation assumes no responsibility for injury to buyer, buyer's employees, or any third persons caused by abnormal use of this material, even if reasonable safety procedures are followed.

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# Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. This Standard must be consulted for specific requirements.

**U.S. Department of Labor**
Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

| | |
|---|---|
| | ACRYLIC FIBER NIBS |

**Section I**

| | |
|---|---|
| **Grafix**<br>(216)581-9050 or (800)447-2349<br>19499 Miles Rd Cleveland OH 44128<br>**Material Safety Data Sheet** | Emergency Telephone Number<br>Telephone Number for Information<br>Date Prepared<br>Signature of Preparer *(optional)* |

**Section II – Hazard Ingredients/Identity Information**

| Hazardous Components (Specific Chemical Identity: Common Name(s)) | OSHA PEL | ACGIH TLV | Other Limits Recommended | CAS No. |
|---|---|---|---|---|
| Poly-acrylic nitrate copolymer | | | | Not Applicable |
| Methylation Melamine Resin | | | | Not Applicable |
| Surfactants | | | | Not Applicable |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

**Section III – Physical/Chemical Characteristics**

| | | | |
|---|---|---|---|
| Boiling Point | | Specific Gravity (H20 = 1) | |
| Vapor Pressure (mm Hg.) | | Melting Temp | |
| Vapor Density (AIR = 1) | | Evaporation Rate (Butyl Acetate = 1) | |
| Solubility in Water | | | |
| Appearance and Odor<br>Yellow color, solid. No Odor. | | | |
| Water Retention | | | |

**Section IV – Fire and Explosion Hazard Data**

| Flash Point (Method Used) | Flammable Limits | LEL | UEL |
|---|---|---|---|
| Extinguishing Media<br>Water, Carbon Dioxide, Foam, Dry Chemical | | | |
| Special Fire Fighting Procedures.<br>The extinguishment method asked for a general fire can be applied. The extinguishment activity should be carried out from the | | | |
| windward side, and respiratory protective devices should be worn for safety as the occasion demands. | | | |
| Unusual Fire and Explosion Hazards: Physical Hazard – This material is a combustible material. It burns, if there is an ignition source. However, this may not cause a dangerous reaction, fire and explosion in usual conditions. | | | |
| Ecological Hazard – This material is not changed and dissolved under normal and usual conditions. | | | |



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## Section V – Reactivity Data

| | | | |
|---|---|---|---|
| Stability | Unstable | | Conditions to Avoid |
| | Stable | | |
| Incompatibility *(Materials to Avoid)* | | | |
| Hazardous Decomposition or Byproducts | | | |
| Hazardous Polymerization | May Occur | | Conditions to Avoid |
| | Will Not Occur | | |

## Section VI – Health Hazard Data

| | | | |
|---|---|---|---|
| Route(s) of Entry: | Inhalation? Not an inhalation hazard, but get medical attention as the occasion demands. | Skin? Wash skin immediately with fresh water. Get medical attention when dermatitis occurs. | Ingestion? When swallowed, give large amounts of water, and get all thrown-up. Then get medical attention immediately. |
| Health Hazards *(Acute and Chronic)*<br>Poisonous gas(Carbon Monoxide gas, Hydrogen cyanide, etc.) may be generated by combustion or thermal decomposition. | | | |
| Carcinogenicity: | NTP? | IARC Monographs? | OSHA Regulated? |
| Signs and Symptoms of Exposure | | | |
| Medical Conditions | | | |
| Emergency and First Aid Procedures: See Section IV – Fire and Explosion Hazard Data | | | |

## Section VII – Precautions for Safe Handling and Use

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|---|
| Steps to Be Taken in Case Material is Released or Spilled<br>Sweep up and place disposal container as waste-plastic. |
| Waste Disposal Method<br>Incinerate or bury in landfill in accordance with all current laws. Regulations and standards in National, State, and local area. |
| Precautions to Be taken in Handling and Storing: Handling – Avoid inhalation or eye contact with grinding dusts. Wash hands with soap and water after handling products with bare hands for hours. Keep away from open flame. |
| Storage – Keep away from ignition sources, heat sources and high temperature. Avoid direct sunlight and/or wet. Keep in normal, cool and dark place without damage. |
| Other Precautions: Do not handle packages roughly as spill or damage may occur during transportation. Confirm packages under good condition, and avoid fall-down, dropping, breakage. Keep away from high temperature, ignition sources and/or fire. Avoid direct sunlight and/or wet. |

## Section VIII – Control Measures

| Respiratory Protection *(Specify Type)*<br>Wear respirator as the occasion demands. | | |
|---|---|---|
| Ventilation: Not applicable, but ventilate air enough as the occasion demands. | Local Exhaust | Special |
| | Mechanical *(General)* | Other |

| Protective Gloves<br>Wear protective as the occasion demands. | Eye Protection<br>Wear eye protector as the occasion demands. |
|---|---|
| Other Protective Clothing or Equipment | |
| Work/Hygienic Practices | |

## Section IX – Special Precautions

| Precautions to be taken in Handling and Storing: Handle with care as the hazardous toxicological information may not be sufficient. The contents of this sheet are based on general information, so that the users should take scrupulous safety measures by their risks before the use of these products. |
|---|
| Other Precautions |

Each MSDS must be reviewed for correctness and completeness every three years.

Reviewed by ____ Bobby Rossi Jr._____ Reviewed Date:_____AUG 29 2011

Revision Date:_____ Revision Date:_____

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