SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier
- Trade name: EkonoL® Polyester Resin Grades: K103A-NCS, P3000, T101, M102 & M102A
- CAS Number: 26099-71-8
- EC number: 607-862-2

1.2 Relevant identified uses of the substance or mixture and uses advised against
- No further relevant information available.

1.3 Details of the supplier of the Safety Data Sheet
- Manufacturer/Supplier: Saint-Gobain Ceramic Materials
  1 New Bond Street, P.O. Box 15137
  Worcester, MA 01615-0137
  tel 1-800-243-0028

1.4 Emergency telephone number:
- CHEMTREC
  1-800-424-9300 (US/Canada)
  +01 703-527-3887 (International)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
  Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).
  May form combustible dust concentrations in air. (USA GHS Only)
  The substance is not classified as hazardous according to the CLP regulation.

Additional information:
- Not hazardous as delivered. Long term inhalation of product dusts formed during use is harmful.
- There are no other hazards not otherwise classified that have been identified.
- 0 % of the mixture consists of component(s) of unknown toxicity.

2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
  This product does not have a classification according to the CLP regulation.
  The substance is classified and labelled according to the Globally Harmonized System within the United States (GHS).
- Hazard pictograms Not Regulated
- Signal word
  Not applicable within the EU; applicable only for North America.
  WARNING

(Cont'd. on page 2)
Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

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Trade name: Ekonol® Polyester Resin Grades: K103A-NCS, P3000, T101, M102 & M102A

(Cont’d. from page 1)

- Hazard-determining components of labelling: None.
- Hazard statements May form combustible dust concentrations in air. (USA GHS Only)
- Precautionary statements Not Regulated
- NFPA ratings (scale 0 - 4)
  - Health = 0
  - Fire = 1
  - Reactivity = 0
- HMIS-ratings (scale 0 - 4)
  - Health = 0
  - Fire = 1
  - Reactivity = 0

2.3 Other hazards
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- 3.1 Substances
  - CAS No. Description
    - 26099-71-8 Poly(oxy-1,4-phenylenecarbonyl)
  - Identification number(s)
  - EC number: 607-862-2

SECTION 4: First aid measures

- 4.1 Description of first aid measures
  - General information: No special measures required.
  - After inhalation: Supply fresh air; consult doctor in case of complaints.
  - After skin contact:
    - Brush off loose particles from skin.
    - Immediately rinse with water.
    - If skin irritation is experienced, consult a doctor.
  - After eye contact:
    - Remove contact lenses if worn, if possible.
    - Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - After swallowing:
    - Rinse out mouth and then drink plenty of water.
    - Do not induce vomiting; call for medical help immediately.
  - 4.2 Most important symptoms and effects, both acute and delayed
    - Breathing difficulty
    - Coughing
    - Slight irritant effect on skin and mucous membranes.
    - Slight irritant effect on eyes.

(Cont’d. on page 3)
Safety Data Sheet
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA
GHS

Trade name: Ekono® Polyester Resin Grades: K103A-NCS, P3000, T101, M102 & M102A

(Cont'd. from page 2)

Nausea in case of ingestion.
May cause gastro-intestinal irritation if ingested.

- **Hazard**: Danger of impaired breathing.
- **4.3 Indication of any immediate medical attention and special treatment needed**
  No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
  - Suitable extinguishing agents:
    - Water haze or fog
    - Foam
    - Carbon dioxide
    - Gaseous extinguishing agents
    - Fire-extinguishing powder
  - **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
  - May form combustible dust concentrations in air.
  - Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
  - **Protective equipment:**
    - Wear self-contained respiratory protective device.
    - Wear fully protective suit.
  - **Additional information** No further relevant information available.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  - Ensure adequate ventilation
  - Avoid formation of dust.
  - Do not breathe dust.
  - For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions:** Avoid release to the environment.
- **6.3 Methods and material for containment and cleaning up:**
  - Pick up mechanically.
  - Dispose of the material collected according to regulations.
  - Send for recovery or disposal in suitable receptacles.
- **6.4 Reference to other sections**
  - See Section 7 for information on safe handling.
  - See Section 8 for information on personal protection equipment.
  - See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
  - Use only in well ventilated areas.

(Cont'd. on page 4)
SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see section 7.

- 8.1 Control parameters
  - Ingredients with limit values that require monitoring at the workplace:
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  - DNELs No further relevant information available.
  - PNECs No further relevant information available.
  - Additional information: The lists valid during the making were used as basis.

- 8.2 Exposure controls
  - Personal protective equipment:
      - General protective and hygienic measures:
        The usual precautionary measures are to be adhered to when handling chemicals.
        Keep away from foodstuffs, beverages and feed.
        Avoid breathing dust.
        Avoid contact with the eyes and skin.
        - Respiratory protection:
          Suitable respiratory protective device recommended.
          Particulate mask should filter at least 99% of airborne particles.
      - Protection of hands:
        Wear gloves for the protection against mechanical hazards according to NIOSH or EN 388.
      - Eye protection:
        Safety glasses

- Body protection: Not required under normal conditions of use.
- Limitation and supervision of exposure into the environment Avoid release to the environment.
- Risk management measures See Section 7 for additional information.
SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
  - General Information
    - Appearance:
      - Form: Powder
      - Colour: Clear to straw color.
      - Odour: Odourless
      - Odour threshold: Not determined.
    - pH-value: Not applicable.
  - Change in condition
    - Melting point/Melting range: Not Determined.
    - Boiling point/Boiling range: Undetermined.
  - Flash point: Not applicable.
  - Flammability (solid, gaseous): Not determined.
  - Auto/Self-ignition temperature: Not determined.
  - Decomposition temperature: Not determined.
  - Self-igniting: Product is not self-igniting.
  - Danger of explosion: Product does not present an explosion hazard.
  - Explosion limits:
    - Lower: Not determined.
    - Upper: Not determined.
  - Vapour pressure at 25 °C (77 °F): 0 mm Hg
  - Density at 25 °C (77 °F): 1.44 g/cm³ (12,017 lbs/gal)
  - Relative density: Not determined.
  - Bulk density at 25 °C (77 °F): 38 lbs/ft³
  - Vapour density: Not applicable.
  - Evaporation rate: Not applicable.
  - Solubility in / Miscibility with water: Insoluble.
  - Partition coefficient (n-octanol/water): Not determined.
- Viscosity:
  - Dynamic: Not applicable.
  - Kinematic: Not applicable.
- 9.2 Other information
  - No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity
  - No further relevant information available.
10.2 Chemical stability
Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications.
10.3 Possibility of hazardous reactions
Reacts with strong oxidising agents.
Reacts with strong acids and alkali.
Risk of dust explosion if enriched with fine dust in the presence of air.
10.4 Conditions to avoid
Avoid acids.
Store away from oxidising agents.
10.5 Incompatible materials: Oxidizers, strong bases, strong acids
10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity
LD/LC50 values relevant for classification:
26099-71-8 Poly(oxy-1,4-phenylene carbonyl)
Oral | LD50 | >10000 mg/kg (mouse)
Primary irritant effect:
Skin corrosion/irritation Based on available data, the classification criteria are not met.
Serious eye damage/irritation Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
Repeated dose toxicity: Repeated or long-term inhalation of product dusts may cause pulmonary disease.
CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):
Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.
Reproductive toxicity Based on available data, the classification criteria are not met.
STOT-single exposure Based on available data, the classification criteria are not met.
STOT-repeated exposure Based on available data, the classification criteria are not met.
Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: No further relevant information available.
12.2 Persistence and degradability No further relevant information available.
12.3 Bioaccumulative potential No further relevant information available.
12.4 Mobility in soil No further relevant information available.
Additional ecological information:
General notes: Generally not hazardous for water
12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
Trade name: Ekonol® Polyester Resin Grades: K103A-NCS, P3000, T101, M102 & M102A

- vPvB: Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
  - **Recommendation**
  Smaller quantities can be disposed of with household waste.
  Contact waste processors for recycling information.
  The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
  - **Uncleaned packaging:**
  - **Recommendation:** Disposal must be made according to local official regulations.

## SECTION 14: Transport information

- **14.1 UN-Number**
  - DOT, ADR, IMDG, IATA
  - **Not Regulated**
- **14.2 UN proper shipping name**
  - DOT, ADR, IMDG, IATA
  - **Not Regulated**
- **14.3 Transport hazard class(es)**
  - DOT, ADR, IMDG, IATA
  - **Class**
  - **Not Regulated**
  - **Label**
  - **-**
  - **ADN/R Class:**
  - **Not Regulated**
- **14.4 Packing group**
  - DOT, ADR, IMDG, IATA
  - **Not Regulated**
- **14.5 Environmental hazards:**
  - **Marine pollutant:**
  - **No**
- **14.6 Special precautions for user**
  - **Not applicable.**
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
  - **Not applicable.**
- **UN "Model Regulation":**
  - **Not Regulated**

## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - United States (USA)
  - SARA
- **Section 355 (extremely hazardous substances):**
  - Substance is not listed.
Trade name: Ekono® Polyester Resin Grades: K103A-NCS, P3000, T101, M102 & M102A

- **Section 313 (Specific toxic chemical listings):**
  Substance is not listed.

- **TSCA (Toxic Substances Control Act):**
  Substance is not listed.

- **Proposition 65 (California):**
  - **Chemicals known to cause cancer:**
    Substance is not listed.
  - **Chemicals known to cause reproductive toxicity for females:**
    Substance is not listed.
  - **Chemicals known to cause reproductive toxicity for males:**
    Substance is not listed.
  - **Chemicals known to cause developmental toxicity:**
    Substance is not listed.

- **Carcinogenic Categories**
  - **EPA (Environmental Protection Agency)**
    Substance is not listed.
  - **IARC (International Agency for Research on Cancer)**
    Substance is not listed.
  - **TLV (Threshold Limit Value established by ACGIH)**
    Substance is not listed.
  - **NIOSH-Ca (National Institute for Occupational Safety and Health)**
    Substance is not listed.

- **Canada**
  - **Canadian Domestic Substances List (DSL)**
    Substance is not listed.
  - **Canadian Ingredient Disclosure list (limit 0.1%)**
    Substance is not listed.
  - **Canadian Ingredient Disclosure list (limit 1%)**
    Substance is not listed.

- **Directive 2012/18/EU**
  - **Named dangerous substances - ANNEX I**
    Substance is not listed.

- **Other regulations, limitations and prohibitive regulations**
  This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

- **Substances of very high concern (SVHC) according to REACH, Article 57**
  Substance is not listed.
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
SVHC: Substances of Very High Concern
vPvB: very Persistent and very Bioaccumulative

Sources
Website, European Chemicals Agency (http://echa.europa.eu/)
Website, US EPA Substance Registry Services (http://ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)
Website, Chemical Abstracts Registry, American Chemical Society (https://www.cas.org)
Safety Data Sheets, Individual Manufacturers
SDS Prepared by:
ChemTel Inc.
1305 North Florida Avenue
Tampa, Florida USA 33602-2902
Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573
Website: www.chemtelinc.com