

FLEXITALLIC L.P.

Material Safety Data Sheet

No. FDP-011
REVISED: 10 July 2009
Contact Number 281-604-2400

GENERAL INFORMATION

Manufacturer:
Flexitallic L.P.
6915 LaPorte Road
Deer Park, Texas 77536

Common Name, Trade Name, or Specification:
Flexicarb LS (Laminated Sheet Gasket Material)

DOT Hazard Code - N/A

1. HAZARDOUS INGREDIENTS AND EXPOSURE LIMITS

Although several of the ingredients used to formulate this product may be hazardous in the raw state, the manufacturing process results in a solid, infusible form, binding or otherwise rendering the mixture inert. We have identified below those hazardous constituents present in quantities greater than 1% (0.1% for carcinogens) that may be released from the product by overheating, burning, machining, abrading, or riveting.

| Component | CAS Number | % | OSHA PEL | ACGIH TLV |
|------------------------|------------|-----|------------------------------------|------------------------------|
| Rubber | None | <1 | N/A | N/A |
| Phenolic Resin | None | <1 | N/A | N/A |
| Acrylonitrile | 107-13-1 | <1 | 2 ppm | 2 ppm |
| Methyl Isobutyl Ketone | 108-10-1 | <1 | 205 mg/m ³ | 50 ppm |
| Ethyl Alcohol | 64-17-5 | <1 | 1900 mg/m ³ | 1000 ppm |
| Methyl Ethyl Ketone | 78-93-3 | <1 | 590 mg/m ³ | 200 ppm |
| Graphite(exfoliated) | 7782-42-5 | <98 | 2.5 mg/m ³ (respirable) | 2.0 mg/m ³ (resp) |
| Silica (Quartz) | 14808-60-7 | <5 | 0.1 mg/m ³ (respirable) | 0.1 mg/m ³ (resp) |

2. PHYSICAL AND CHEMICAL CHARACTERISTICS

Melting Point - None
Color - Black

Solubility in water - Insoluble
Specific Gravity - 1.0 - 1.5

Odor -Hydrocarbon
Form - Solid

3. FIRE AND EXPLOSION DATA

Auto-ignition Temperature: This product is inherently flame resistant.

Flammable Limits in Air: % in Air by Volume: LEL: N/A UEL: N/A

Extinguisher Media: Carbon dioxide, chemical, or foam

Special Firefighting Procedure: Material in or near fires should be cooled with a water spray or fog. A self-contained breathing apparatus, operating in the positive pressure mode, and full fire fighting protective clothing should be worn for combative fires.

Unusual Fire and Explosion Hazards: Thermal decomposition or combustion may produce dense smoke, oxides of carbon, and low molecular weight organic compounds whose composition has not been characterized.

4. PHYSICAL HAZARDS AND REACTIVITY DATA

Stability: Stable at normal temperatures and storage conditions

Incompatibility: None

Hazardous Decomposition Products: None

Hazardous Polymerization: Will not polymerize. This product is fully cured in the manufacturing process.

5. HEALTH HAZARDS

| Carcinogenicity: | NTP Listed | IARC Listed | NIOSH Listed | OSHA Listed |
|-------------------------|-------------------|--------------------|---------------------|--------------------|
| Phenolic Resin | No | No | No | No |
| Acrylonitrile | Yes | Yes* | Yes | Yes |
| M.I.B.K | No | No | No | No |
| Rubber | No | No | No | No |
| Ethyl Alcohol | No | No | No | No |
| M.E.K | No | No | No | No |
| Silica(Quartz) | Yes | Yes** | Yes | No |
| Graphite | No | No | No | No |

* IARC classifies acrylonitrile as "probably carcinogenic to humans." Group 2A

** IARC classifies quartz as "probably carcinogenic to humans." Group 2A

Symptoms and Effects of Exposure to the Individual Components:

RUBBER (POWDERED)

Inhalation hazards - May cause mild irritation of respiratory tract. Repeated and prolonged inhalation of dust may lead to a benign pneumoconiosis. This condition may cause some lung function impairment but is reversible with reduced exposure.

Other hazards - Eyes - may cause mild transient eye irritation.

PHENOLIC RESIN

Inhalation hazards - Dust may cause irritation of nasal and respiratory tracts. If formaldehyde

vapors are present, inhalation may cause a form of nasal cancer. Other hazards - Prolonged exposure can cause irritation, redness, and tearing of the eyes and may lead to sensitization of the skin and dermatitis.

ACRYLONITRILE

Inhalation Hazards - Exposure to acrylonitrile may cause somnolence, general anesthesia, cyanosis, and diarrhea. Symptoms include flushing of the face, salivation, irritation of the eyes and nose, photophobia, deepened respiration, nausea, weakness, and headache. IARC classifies acrylonitrile as "probably carcinogenic to humans." (Group 2A)

Other hazards - Acrylonitrile is a human systemic irritant and may be poisonous by skin absorption and ingestion. Target organs include the liver, central nervous system, brain, kidneys, and cardiovascular system.

GRAPHITE

Inhalation hazards - Acute: exposure may result in cough, dyspnea, black sputum, and fibrosis. Chronic: Prolonged exposure may cause pneumoconiosis. It is reported that diseases of the respiratory and cardiovascular system may be aggravated by exposure.

METHYL ISOBUTYL KETONE (HEXONE)

Inhalation hazards - M.I.K. is a systemic irritation.

Other hazards - exposure will irritate skin, eyes and mucous membranes. Moderately toxic by ingestion. Narcotic in high concentrations.

ETHYL ALCOHOL

Inhalation hazards - Moderately toxic if inhaled, may cause cough or irritation of lungs.

Other hazards - Ethyl Alcohol is moderately toxic by ingestion. May cause sleep disorders, convulsions, nausea or coma. Prolonged exposure may cause headache, irritation of the eyes and skin.

METHYL ETHYL KETONE (M.E.K.)

Inhalation hazards - M.E.K. is a systemic irritation.

Other hazards - Moderately toxic by ingestion, skin contact, and imperitoneal routes. Will irritate eyes and nasal passages.

SILICA DUST

Inhalation hazards - Acute: Exposure to silica dust may cause paroxysmal coughing, wheezing, dyspnea and upper respiratory tract irritation. Chronic: Prolonged exposure to silica dust may cause silicosis. Quartz has been classified by IARC as "probably carcinogenic to humans." (Group 2A)

Other hazards - Eye or skin contact can cause temporary discomfort and irritation.

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|---------------------|
| 6. FIRST AID |
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Inhalation: Move to fresh air. Obtain medical attention.

Eyes: Flush with water to remove particulate. Obtain medical attention.

Skin: Wash thoroughly with soap and water. If persistent irritation develops, obtain medical attention.

Ingestion: Obtain medical attention.

7. SPECIAL PRECAUTIONS AND SPILL / LEAK PROCEDURES

Handling and Storage : Shipping and storage may result in accumulation of dust in shipping containers. If this occurs, dispose of the container in an airtight polyethylene bag (see disposal instructions below) or remove dust by vacuuming or wet mopping. Vacuums used for this purpose should be equipped with HEPA filters. Do not use compressed air to blow dust from storage containers.

Release or Spill : If a release of dust occurs during machining, abrading, or riveting, remove dust by vacuuming or wet mopping. Vacuums used for this purpose should be equipped with HEPA filters. Do not use compressed air to blow dust from the workplace.

Waste Disposal : Disposal of solid waste is regulated by federal and state law. Waste should be placed in airtight containers, and disposed of properly. Contact local regulatory agency for guidance.

8. PERSONAL PROTECTION AND CONTROL

Respiratory Protection : Use NIOSH-approved respirator if exposure to dust, vapors, or fumes in concentrations exceeding PEL's or TLV's is possible. (See 29 CFR 1910.134 for respiratory protection standards)

Ventilation : Any operations which may produce dust, including machining, grinding, riveting, or abrading of this product, should be adequately exhausted to prevent inhalation of dust.

Personal Protective Equipment : Suitable respiratory protection should be worn if dust exposure is possible. All regulations and safe practices related to the use of respiratory protection must be observed. Refer to OSHA standards and NIOSH guidelines. If skin irritation occurs, gloves and other protective garments may be worn.

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