



MATERIAL SAFETY DATA SHEET

Gemini Pro-Lon PTFE Virgin Resin 01/1/20 Conforms to OSHA HazCom 2012

SECTION 1: IDENTIFICATION

1.1. Product identifier

Gemini Pro-Lon GemFlon Product

Identification Numbers:

GemFlon, Virgin PTFE Resin, Virgin Molding Powder

1.2. Recommended use and restrictions on use

Recommended use

Fluoropolymer for gaskets, shims, wear pads, tubes, rods, billets

1.3. Supplier's details

Manufacturer: Gemini Pro-Lon

Address: 352 North US Hwy 77, Rockdale, TX 76567

Telephone: 855-521-7833

1.4. Emergency telephone number

512-234-2373

SECTION 2: HAZARD IDENTIFICATION

2.1. Hazard classification

Not classified as hazardous according to OSHA Hazcom 2012

2.2. Label elements

Signal word Not applicable.

Symbols Not applicable.

Pictograms Not applicable.

Prevention Not applicable.

Response Not applicable.

Storage Not applicable.

Disposal Not applicable.

2.3. Hazards not otherwise classified

May cause thermal burns.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient C.A.S. No. % by Wt

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation: Remove person to fresh air. If you feel unwell, get medical attention.

Skin Contact: Immediately flush skin with large amounts of cold water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Cover affected area with a clean dressing. Get immediate medical

Eye Contact: attention.

Immediately flush eyes with large amounts of water for at least 15 minutes. DO NOT ATTEMPT TO

If Swallowed: REMOVE MOLTEN MATERIAL. Get immediate medical attention.

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

4.3. Indication of any immediate medical attention and special treatment

required Not applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

5.2. Special hazards arising from the substance or mixture

Exposure to extreme heat can give rise to thermal decomposition.

5.3. Special protective actions for fire-fighters

When fire fighting conditions are severe and total thermal decomposition of the product is possible, wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. Observe precautions from other sections.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Use wet sweeping compound or water to avoid dusting. Sweep up. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of Gemini Pro-Lon's PTFE sheet or tape

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Do not breathe thermal decomposition products. Avoid skin contact with hot material. For industrial or professional use only. Store work clothes separately from other clothing, food and tobacco products. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. No smoking: Smoking while using this product can result in contamination of the tobacco and/or smoke and lead to the formation of hazardous decomposition products.

7.2. Conditions for safe storage including any incompatibilities

Store away from heat.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

Ingredient C.A.S. No. Agency Limit type Additional Comments

Polytetrafluoroethylene 9002-84-0 CMRG TWA (as respirable dust): 5mg/m³; TWA (as total dust):10 mg/m³

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMR : Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

For those situations where the material might be exposed to extreme overheating due to misuse or equipment failure, use with appropriate local exhaust ventilation sufficient to maintain levels of thermal decomposition products below their exposure guidelines. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. Local exhaust required above 400 C.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full Face Shield

Indirect Vented Goggles

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

During heating:

Use a positive pressure supplied-air respirator if there is a potential for over exposure from an uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection.

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates For questions about suitability for a specific application, consult with your respirator manufacturer. Thermal hazards

Wear heat insulating gloves when handling hot material to prevent thermal burns.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

General Physical Form:	Solid
Specific Physical Form:	Sheets or Rolls from .010" - 1/4" White,
Odor, Color, Grade:	off white, grey and Odorless.
Odor threshold	No Data Available
pH:	Not Applicable
Melting point:	325 - 330 °C [Details: ASTM D 2116]
Boiling Point:	Not Applicable
Flash Point:	No flash point
Evaporation rate:	Not Applicable
Flammability (solid, gas):	Not Classified
Flammable Limits(LEL):	Not Applicable
Flammable Limits(UEL):	Not Applicable
Vapor Pressure:	Not Applicable
Vapor Density:	Not Applicable
Density:	No Data Available
Specific Gravity:	No Data Available
Solubility in Water:	Negligible
Solubility- non-water:	No Data Available
Partition coefficient:	n-octanol/ water No Data
Autoignition temperature:	Available Not Applicable
Decomposition temperature:	No Data Available
Viscosity:	Not Applicable
Volatile Organic Compounds:	Not Applicable
Percent volatile:	Not Applicable
VOC Less H2O & Exempt Solvents:	Not Applicable

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Alkali and alkaline earth metals

10.6. Hazardous decomposition products

Substance Condition

Carbonyl Fluoride At Elevated Temperatures

Carbon monoxide At Elevated Temperatures

Carbon dioxide At Elevated Temperatures

Hydrogen Fluoride At Elevated Temperatures

Perfluoroisobutylene (PFIB) At Elevated Temperatures

Toxic Vapor, Gas, Particulate At Elevated Temperatures

If the product is exposed to extreme condition of heat from misuse or equipment failure, toxic decomposition products that include hydrogen fluoride and perfluoroisobutylene can occur.

SECTION 11: TOXICOLOGICAL INFORMATION

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Vapors from heated material may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause target organ effects after inhalation.

During heating:

Polymer Fume Fever: Sign/symptoms may include chest pain or tightness, shortness of breath, cough, malaise, muscle aches, increased heart rate, fever, chills, sweats, nausea, and headache.

Skin Contact:

During heating:

Thermal Burns: Signs/symptoms may include intense pain, redness and swelling, and tissue destruction.

Eye Contact:

During heating:

Thermal Burns: Signs/symptoms may include severe pain, redness and swelling, and tissue destruction.

Mechanical eye irritation: Signs/symptoms may include pain, redness, tearing, and corneal abrasion.

Vapors from heated material may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting, and diarrhea.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name Route Species Value

Overall product Ingestion No data available; calculated ATE > 5,000 mg/kg

Polytetrafluoroethylene Dermal LD50 estimated to be > 5,000 mg/kg

Polytetrafluoroethylene Ingestion LD50 estimated to be > 5,000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological information

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes.

Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: TRANSPORT INFORMATION

For Transport Information, please call 855-521-7833

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

Contact Repro-Lon for more information.

311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

15.2. State Regulations

Contact Gemini Pro-Lon for more information.

15.3. Chemical Inventories

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance." Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the chemical notification requirements of TSCA.

Contact Repro-Lon for more information.

15.4. International Regulations

Contact Repro-Lon for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA Hazard Classification

Health: 3 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification

Health: 1 Flammability: 1 Physical Hazard: 0 Personal Protection: X - See PPE section.

Hazardous Material Identification System (HMIS III) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS III ratings are to be used with a fully implemented HMIS III program. HMIS is a registered mark of the American Coatings Association (ACA).

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. Gemini Pro-Lon makes NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the Repro-Lon product is fit for a particular purpose and suitable for user's method of use or application, some of which are uniquely within the user's knowledge and control. It is essential that the user evaluate Gemini Pro-Lon's product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

Gemini Pro-Lon provides information in electronic form as a service to its customers.

Gemini Pro-Lon

352 N US Highway 77

Rockdale, TX 76567

Toll Free: 855-521-7833 (855-521-PTFE)

gpltx.com