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# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: EP-2011  
CHEMICAL FAMILY: Polydimethylsiloxane Polymer  
HMIS RATING: H 0 F 1 R 0  
USE OF MATERIAL: Gasket Material  
DATE ISSUED: April 12, 2010  
EMERGENCY PHONE: 860-774-9605 (Monday – Friday 8 a.m. – 5 p.m. EST)  
CHEMTREC: 800-424-9300 (U.S. & Canada) (24 Hours)  
703-527-3887 (International – Call Collect) (24 Hours)

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS No.</u>	<u>EINECS /ELINCS</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>China OEL</u>	<u>EU Classification</u>
Alumina Hydrate	21645-51-2	244-492-7	<10	5 mg/m <sup>3</sup> (resp)	3 mg/m <sup>3</sup> (resp)	NE	Not Classified Under 67/548/EC
Carbon Black	1333-86-4	215-609-9	<1	3.5 mg/m <sup>3</sup>	3.5 mg/m <sup>3</sup>	NE	Not Classified Under 67/548/EC
Silica, Tripoli (Encapsulated)	14808-60-7	238-878-4	<20	10 mg/m <sup>3</sup> % SiO <sub>2</sub> +2 (Resp)	0.1mg/m <sup>3</sup> (Resp)	NE	Not Classified Under 67/548/EC

The Material contains no other hazardous ingredients as defined in OSHA's Hazard Communication Standard 29 CFR 1910.1200 or EU directive 1999/45/EC, and do not present a health or environmental hazard according to directive 67/548/EC.

## 3. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE MATERIAL: NE  
LABELING REQUIREMENTS: NE  
EFFECTS OF OVEREXPOSURE: None are expected with normal handling. Materials in Section 2 are encapsulated or compounded making release unlikely. Cutting and other finishing operations may create dust. Ventilation and personal protective equipment should be similar to operations generating nuisance dust.  
INHALATION: Dusts may cause mechanical respiratory irritation.  
EYE CONTACT: Dusts may cause mechanical irritation.  
SKIN CONTACT: Dust may cause irritation.  
INGESTION: None known.

CHRONIC: Tripoli is listed by NTP as reasonably anticipated to be a carcinogen". However, the tripoli in this material is encapsulated eliminating this hazard during normal processing.

The IARC has listed Carbon Black as a Class 2B possible human carcinogen based on animal studies.

#### 4. FIRST-AID MEASURES

INHALATION: If large amounts of dust are inhaled resulting in respiratory irritation, remove to fresh air. Seek medical attention if discomfort continues.

EYE CONTACT: Flush eyes with water for 15 minutes. Seek medical attention if irritation persists.

SKIN CONTACT: Wash dust off skin with soap and water.

INGESTION: Not likely as a route of exposure. If large amounts of processing dusts are ingested resulting in gastrointestinal discomfort, seek medical attention.

#### 5. FIRE-FIGHTING MEASURES

FLASH POINT:	NA °C (°F)	Flammable Limits:	LEL	NA	UEL	NA
AUTOIGNITION TEMPERATURE:	NE °C (°F)					

EXTINGUISHING MEDIA:	X	Water Spray	X	Foam	X	CO <sub>2</sub>
	X	Dry Chemical		Other –		

SPECIAL FIRE FIGHTING PROCEDURES: Decomposition in a fire may produce toxic fumes. Firefighters should be equipped with self-contained breathing apparatus and full turn out gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, silicon dioxide, and traces of incompletely burned carbon compounds.

#### 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: None needed.  
ENVIRONMENTAL PRECAUTIONS: None needed.  
CLEANING METHODS: Sweep or shovel spills into appropriate container for disposal.

#### 7. HANDLING AND STORAGE

HANDLING: No special requirements.  
STORAGE: Store in a cool, well-ventilated area.

#### 8. ENGINEERING CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: If mechanical ventilation is absent, or inadequate to maintain exposure levels below those listed in Section 2, use PPE compliant to NIOSH or MSHA requirements.

##### VENTILATION

LOCAL: Local exhaust ventilation is recommended during heating, finishing, hot wire and laser cutting operations.

GENERAL: Recommended for all industrial operations.

**PERSONAL PROTECTION**

HAND: None required.  
EYE: Safety glasses are recommended with all industrial operations.  
OTHER: None required.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: Cellular Silicone Material  
ODOR: Slight Characteristic  
PHYSICAL STATE: Solid  
BOILING POINT: NA  
MELTING POINT: NE  
FREEZING POINT: NA  
FLASH POINT: °C (°F)  
WATER SOLUBILITY: In-Soluble  
VAPOR DENSITY: NA  
VAPOR PRESSURE: NA  
SPECIFIC GRAVITY: 0.24 – 0.55 (water = 1)  
PARTITION COEFFICIENT: NA  
EVAPORATION RATE: NA  
RELATIVE DENSITY: NA  
VISCOSITY: NA  
AUTO-IGNITION TEMPERATURE: NA  
DECOMPOSITION TEMPERATURE: NE  
PH: NA  
FLAMMABILITY: NA

**10. STABILITY AND REACTIVITY**

STABLE X UNSTABLE

MATERIALS TO AVOID: NE  
HAZARDOUS POLYMERIZATION: May Occur X Does Not Occur  
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, silicon dioxide, and traces of incompletely burned carbon compounds.

**11. TOXICOLOGICAL INFORMATION**

CARCINOGENIC STATUS: Tripoli is listed by NTP as reasonably anticipated to be a carcinogen". However the tripoli in this material is encapsulated eliminating this hazard during normal processing.  
  
The IARC has listed Carbon Black as a Class 2B possible human carcinogen based on animal studies.

**12. ECOLOGICAL INFORMATION**

NA

### 13. DISPOSAL CONSIDERATION

PHYSICAL/CHEMICAL PROPERTIES: None  
AFFECTING DISPOSAL:  
ENVIRONMENTAL TOXICITY DATA: NA  
WASTE DISPOSAL METHOD: Dispose of in accordance with applicable federal, state, provincial, and local laws and regulations.

### 14. TRANSPORT INFORMATION

UN NUMBER: Not Regulated  
UN PROPER SHIPPING NAME: Not Regulated  
HAZARD CLASS (ES): Not Regulated  
PACKING GROUP: Not Regulated  
ENVIRONMENTAL HAZARDS: Not Regulated

### 15. REGULATORY INFORMATION

INTERNATIONAL REGULATIONS:  
Canadian (DSL/NDSL): NE  
Australian (ACIS): NE  
Korea (KECI): NE  
Japan (ENCS, MITI): NE  
China (SEPA): NE  
EU Directive 2002/95/EC (RoHS): Does not contain any intentionally added substances mentioned by the RoHS directive.  
European:  
Symbol: Not classified according to directive 67/548/EEC (dangerous substances) and 1999/45/EC (dangerous preparations).  
R-Phase(s):  
S-Phase(s):  
TSCA: All materials are listed or exempt from TSCA listing.  
(*Toxic Substances Control Act*):  
CERCLA: NA  
(*Comprehensive Emergency Response, Compensation, and Liability Act*):  
SARA TITLE III: NA  
(*Superfund Amendments and Reauthorization Act*):  
311/312 HAZARD CATEGORIES: None

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>PERCENT BY WEIGHT</u>
NA	NA	NA

### 16. OTHER INFORMATION

NA = Not Applicable  
NE = Not Established  
NC = Not Classified

FILE: EP-2011  
99198  
PREPARED BY: Michal Werbecki  
REVIEWED BY: Steve Graves

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