# Material Safety Data Sheet

**FMC-200 and FMC-201** **MSDS No. 515A-521A**

Date of Preparation: May 2, 2005 Revision: 0010

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** FMC-200 and FMC-201
**Chemical Family: Formulated** Polysulfide Polymer
**General Use:** Polysulfide Elastomer
**Manufacturer:** Smooth-On Inc., 2000 St. John St., Easton PA 18042
Phone (610) 252-5800, FAX (610) 252-6200
**Emergency Contact**: Chem-Tel
Domestic 800-255-3924
International 813-248-0585

## Section 2 - Composition / Information on Ingredients

| Component | CAS Number | ACGIH TLV | Exposure Limits OSHA PEL | % By Weight |
|---|---|---|---|---|
| Polysulfide Polymer | 68611-50-7 | None Established | None Established | 50-55 |
| 2- Ethylhexyl Diphenyl Phosphate | 1241-94-7 | None Established | None Established | 20-25 |
| Carbon Black | 1333-86-4 | 3.5 mg/m$^3$ | 3.5 mg/m$^3$ | 25-30 |

## Section 3 - Hazards Identification

| HMIS | |
|---|---|
| H | 1 |
| F | 1 |
| R | 0 |

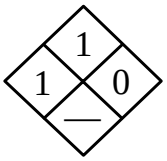
### Potential Health Effects

**Primary Entry Routes:** Dermal, inhalation of vapors
**Target Organs:** Skin
**Inhalation:** Vapors, which are not significant unless heated or sprayed, can cause irritation to respiratory tract.
**Eye:** May cause irritation, redness, and tearing.
**Skin:** Contact will cause irritation, reddening, and cracking of the skin.
**Ingestion:** May cause irritation of the digestive tract.
**Carcinogenicity:** This product contains Carbon Black, which is classified as a possible carcinogen by IARC.
**Medical Conditions Aggravated by Long-Term Exposure:** Pre-existing skin disorders.

## Section 4 - First Aid Measures

**Inhalation:** Remove too fresh air; get medical attention.
**Eye Contact:** Flush eyes with water for 15 minutes. Seek medical attention.
**Skin Contact:** Remove by washing with soap and water.
**Ingestion:** Induce vomiting; get immediate medical attention.
***After first aid, get appropriate in-plant, paramedic, or community medical support.***

## Section 5 - Fire-Fighting Measures




**Flash Point:** >200 °F (90 °C)
**Flash Point Method:** Seta
**Autoignition Temperature:** None Determined
**LEL:** None Determined
**UEL:** None Determined
**Flammability Classification:** Non-Flammable
**Extinguishing Media:** Dry Chemical, Carbon Dioxide Foam
**Unusual Fire or Explosion Hazards:** None
**Hazardous Combustion Products:** oxides of carbon, oxides of sulfur, hydrocarbons, and hydrogen sulfide.
**Fire-Fighting Instructions:** Do not release runoff from fire control methods to sewers or waterways.
**Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

## Section 6 - Accidental Release Measures

**Spill /Leak Procedures**
**Small Spills:** Absorb or scrape up excess into suitable container for disposal.
**Containment:** For large spills, dike and contain. Do not release into sewers or waterways.
**Cleanup:** Absorb or scrape up excess into suitable container for disposal.
**Large Spills**
**Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).

## Section 7 - Handling and Storage

**Handling Precautions:** Do not ingest. Avoid contact with eyes, skin and clothing. Good general hygiene is essential to controlling long term exposure
**Storage Requirements:** Store at ambient temperature.

## Section 8 - Exposure Controls / Personal Protection

**Engineering Controls**
**Ventilation:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.
**Administrative Controls**
**Respiratory Protection:** Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.*

## Section 8 - Exposure Controls / Personal Protection (continued)

If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

**Protective Clothing/Equipment:** Wear chemically protective gloves, boots, and aprons to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

## Section 9 - Physical and Chemical Properties

**Physical State**

**Appearance and Odor:** Black viscous liquid, Mercaptan odor

**Vapor Pressure:** Not Determined

**Vapor Density (Air=1):** Not Determined

**Specific Gravity ($H_2O$=1, at 4 °C):** 1.30

**pH:** Not Determined

**Water Solubility:** Insoluble

**Boiling Point:** >350°F (177°C)

**Freezing/Melting Point:** N/A

**Viscosity:** <140 poise

**% Volatile:** None

**Evaporation Rate:** None

## Section 10 - Stability and Reactivity

**Stability:** These products are stable at room temperature in closed containers under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization cannot occur.

**Chemical Incompatibilities:** Strong acids and strong oxidizers

**Hazardous Decomposition Products:** Thermal oxidative decomposition can produce oxides of carbon, oxides of sulfur, hydrocarbons and hydrogen sulfide.

## Section 11- Toxicological Information

**Toxicity Data:***

**Acute Inhalation Effects:**
Human, inhalation, $TC_L$: None Established

**Acute Oral Effects:**
Rat, oral, $LD_{50}$: None Established

**Reproductive Toxicity:** None Established
**Mutagenicity:** None Established
**Teratogenicity:** None Established
**Sensitization:** None Established

## Section 12 - Ecological Information

**Ecotoxicity:** None Established

**Environmental Fate:** None established

## Section 13 - Disposal Considerations

**Disposal:** Follow applicable federal, state, and local regulations.
**Disposal Considerations**: It is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability; (1) recycle or rework, (2) incinerate at an authorized facility, (3) treat at an acceptable waste treatment center.

## Section 14 - Transport Information

| DOT | IATA | IMDG |
|---|---|---|
| **Not Regulated** | **Not Regulated** | **Not Regulated** |

## Section 15 - Regulatory Information

**EPA Regulations:**

RCRA Hazardous Waste Classification (40 CFR 261): None

CERCLA Hazardous Substance (40 CFR 302.4) listed per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112: None

SARA 311/312 Codes: None

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed, Threshold Planning Quantity (TPQ)
TSCA Inventory Status (40 CFR 355): All components of this product are listed on the TSCA inventory.

**State Regulations**:

California Proposition 65: These products contain ethylene oxide and formaldehyde in trace amounts (less than 0.01%), which have been identified by the state of California to cause birth defects or other reproductive harm and cancer.

Massachusetts, Minnesota, Pennsylvania and Washington Right To Know, Substance List:

| Chemical Name | CAS # | % by Weight |
|---|---|---|
| Carbon Black | 1333-86-4 | 30.0 Max. |

## Section 16 - Other Information

**Prepared By:** Dominick J. Finocchio
**Title:** Technical Director

**Disclaimer:** The information contained in this MSDS is considered accurate as of the version date. However, no warranty is expressed or implied regarding the accuracy of the data. Since the use of this product is not within the control of Smooth-On Inc., it is the user's obligation to determine the suitability of the product for its intended application and assumes all risk and liability for its safe use.