



Material Safety Data Sheet

FMC-205

MSDS No. 526

Date of Preparation: May 2, 2005

Revision: 0010

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: FMC-205

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	40-45
Carbon Black	1333-86-4	3.5 mg/m ³	3.5 mg/m ³	22-30
2-Ethylidiphenyl phosphate	1241-94-7	None Established	None Established	20-25
Dibutyl Phthalate	84-74-2	5 mg/m ³	5 mg/m ³	5-10

Section 3 - Hazards Identification

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: These products contain Carbon Black, which is classified as a possible carcinogen by IARC.

Medical Conditions Aggravated by Long-Term Exposure: Pre-existing skin disorders.

HMIS	
H	2
F	1
R	0

Section 4 - First Aid Measures

Inhalation: Remove to 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: >300°F (150°C) **LEL:** None Determined **UEL:** None Determined

Flash Point Method: Seta **Autoignition Temperature:** None Determined

Flammability Classification: Non-Flammable

Extinguishing Media: Dry Chemical, Carbon Dioxide Foam

Unusual Fire or Explosion Hazards: None



Section 5 - Fire-Fighting Measures (continued)

Hazardous Combustion Products: oxides of carbon, oxides of sulfur, hydrocarbons, and hydrogen sulfide.

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.

Large Spills

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.

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.* 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 (H₂O=1, at 4 °C): 1.30

pH: Not Determined

Water Solubility: Insoluble

Boiling Point: >350°F (177°C)

Freezing/Melting Point: N/A

Viscosity: <60 poise

% Volatile: None

Evaporation Rate: None

Section 10 - Stability and Reactivity

Stability: This product is 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, TCL: None

Established **Acute Oral Effects:**

Rat, oral, LD50: 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
Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (n-butyl phthalate Mixture) (Greater than 10 pounds of N- Butyl Phthalate) UN #: 3082 Hazard Class: 9 Label: Miscellaneous	Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (n-butyl phthalate Mixture) (Greater than 10 pounds of N- Butyl Phthalate) UN #: 3082 Hazard Class: 9 Label: Miscellaneous	Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Di-n-butyl phthalate Mixture) UN #: 3082 Hazard Class: 9 Label: Marine Pollutant

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

<u>Components That Require Reporting</u>	<u>RQ</u>	<u>% Reportable Component</u>
1,2 Benzenedicarboxylic acid, dibutyl ester	10 lbs.	10.0 Max.

SARA 311/312 Codes: None

This product contains the following chemicals that are subject to release reporting requirements under section 313 of SARA Title III.

<u>Chemical Name</u>	<u>CAS #</u>	<u>% by Weight</u>
1,2 Benzenedicarboxylic acid, dibutyl ester	84-74-2	10.0 Max

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed, Threshold Planning Quantity (TPQ)

SCA Inventory Status (40 CFR 710): All components of this product are listed on the TSCA inventory

State Regulations:

California Proposition 65: These products do not 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:

<u>Chemical Name</u>	<u>CAS #</u>	<u>% by Weight</u>
Carbon Black	1333-86-4	30.0 Max.

Florida, Massachusetts, Michigan, Minnesota, New Jersey, Pennsylvania and Washington Right To Know, Substance List:

<u>Chemical Name</u>	<u>CAS #</u>	<u>% by Weight</u>
1,2 Benzenedicarboxylic acid, dibutyl ester	84-74-2	10.0 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.