



# Material Safety Data Sheet

FMC-214 and FMC-215

MSDS No. 530

Date of Preparation: October 15, 2010

Revision: 0003

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** FMC-214 and FMC-215 Part A

**General Use:** Polyurethane 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- Hazards Identification

**Hazard Designation:**

Europe



Canada



HMIS	
H	2
F	1
R	0

+T: Toxic    N: Dangerous for the environment

### Risk Phrases pertaining to particular dangers

**R50/53:** Very toxic to aquatic organisms may cause long term adverse effects in the aquatic environment.

**R61:** May cause harm to the unborn child.

**R62:** Possible risk of impaired fertility.

Classified according to Articles 6 & 7 of Directive 1999/45/EC

## Section 3 - Composition / Information on Ingredients

Component	ACGIH TWA	OSHA PEL	Hazard Designation	Weight Percent (%)
Butyl benzyl phthalate CAS Number: 85-68-7 EINECS Number: 201-622-7	None Established	None Established	+T  N	1-5
Chlorinated Paraffin CAS Number: 63449-39-8 EINECS Number: 264-150-0	None Esatblished	None Esatblished	N	25-30

## Section 4 - First Aid Measures

**Inhalation:** Remove source(s) of contamination and move victim to fresh air. If breathing has stopped, give artificial respiration, then oxygen if needed. Contact physician immediately.

**Eye Contact:** Flush eyes with plenty of water. If irritation persists, seek medical attention.

**Skin Contact:** In case of skin contact, wash thoroughly with soap and water; remove contaminated clothing and launder before reuse; seek medical attention if rash develops.

**Ingestion:** Do not induce vomiting unless instructed by a physician. Contact physician immediately

**After first aid, get appropriate in-plant, paramedic, or community medical support.**

## Section 5 - Fire-Fighting Measures

**Flash Point:** >300 °F (150°C)

**Flash Point Method:** COC

**LEL:** Not Established    **UEL:** Not Established

**Flammability Classification:** Non-Flammable

**Extinguishing Media:** Water Fog, Dry Chemical, and Carbon Dioxide Foam

**Hazardous Combustion Products:** oxides of carbon, oxides of sulfur, hydrocarbons, 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:** Only properly protected personnel should remain in the spill area; dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely.

## Section 7 - Handling and Storage

**Handling Precautions:** Minimize breathing of vapors and avoid prolonged or repeated contact with skin. Wear proper protective equipment. If ventilation is not sufficient, wear proper respiratory equipment. Avoid moisture contamination. Reseal partial containers. Use good general housekeeping procedures.

**Storage Requirements:** Store in cool dry, well-ventilated area.

## Section 8 - Exposure Controls / Personal Protection

**Respiratory Protection:** Follow OSHA respirator regulations 29 CFR 1910.134 and European Standard EN 149; wear an MSHA/NIOSH or European Standard EN149 approved respirator. *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 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 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.



**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<sub>2</sub>O=1, at 4 °C):** 1.36

**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:** 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

Butyl Benzyl Phthalate	Rat: 20,400 mg/kg	Rat: >6.7 g/l for 4 hours.
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## Section 12 - Ecological Information

Butyl Benzyl Phthalate: Biodegradable according to OECD.

Ecotoxicity in water: 1.1-1.7 mg/l (Fish)

## Section 13 - Disposal Considerations

**Disposal:** Must be disposed of in accordance with local regulations.

## Section 14 - Transport Information

### DOT

**Shipping Name:**

ENVIRONMENTALLY  
HAZARDOUS  
SUBSTANCE, LIQUID, N.O.S.  
(Chlorinated Paraffin)

**UN #: 3082**

**Hazard Class: 9**

**Label:** Marine Pollutant

### IATA

**Shipping Name:**

ENVIRONMENTALLY  
HAZARDOUS  
SUBSTANCE, LIQUID, N.O.S.  
(Chlorinated Paraffin)

**UN #: 3082**

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### IMDG

**Shipping Name:**

ENVIRONMENTALLY  
HAZARDOUS  
SUBSTANCE, LIQUID, N.O.S.  
(Chlorinated Paraffin)

**UN #: 3082**

**Hazard Class: 9**

**Label:** Marine Pollutant

## Section 15 - Regulatory Information

**TSCA Inventory Status (40 CFR710):** All components of these formulations are listed in the TSCA Inventory.

California Proposition 65: These products contain Butyl Benzyl which has been identified by the state of California to cause birth defects or other reproductive harm.

### Canadian Regulations;



WHMIS Identification: **D2A, D2B**

CDSL/NDL (Canadian Domestic Substance List/Non Domestic Substance List): **Listed on CDSL**



## Section 15 - Regulatory Information (continued)

### Labeling according to EEC Directive

Risk Phrases	Symbol(s) Required for EU Label	Safety Phrases
<p><b>R50/53:</b> Very toxic to aquatic organisms may cause long term adverse effects in the aquatic environment.</p> <p><b>R61:</b> May cause harm to the unborn child.</p> <p><b>R62:</b> Possible risk of impaired fertility.</p>	 <b>+T: Toxic</b>   <b>N: Dangerous for the environment</b>	<p><b>S28:</b> After contact with skin, wash immediately with plenty of soap-suds.</p> <p><b>S36/37/39:</b> Wear suitable protective clothing, gloves and eye and face protection.</p> <p><b>S45:</b> In case of accident or if you feel ill, seek medical advice immediately.</p> <p><b>S53:</b> Avoid exposure.</p> <p><b>S60:</b> This material and container must be disposed as hazardous waste.</p> <p><b>S61:</b> Avoid release to the environment. (See MSDS).</p>

## 16 - Other Information

**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.

This Material Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Directive 1907/2006/EEC (REACH). Hazard symbols and risk phrases are based on maximum listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) or the European Union (EU/EEC) directive 1907/2006/EEC and are considered trade secrets under US Federal Law (29CFR and 40CFR), Canadian Law (Health Canada Legislation), and European Union Directives.



# Material Safety Data Sheet

FMC-214 and FMC-215

MSDS No. 530

Date of Preparation: October 15, 2010

Revision: 0003

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** FMC-214 and FMC-215 Part A

**General Use:** Polysulfide Curative

**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- Hazards Identification

**Hazard Designation:**

Europe



Canada



HMIS	
H	2
F	1
R	1

+T: Toxic N: Dangerous for the environment

**Risk Phrases pertaining to particular dangers**

**R20:** Harmful by inhalation.

**R22:** Harmful if swallowed.

**R33:** Danger of cumulative effects.

**R50/53:** Very toxic to aquatic organisms may cause long term adverse effects in the aquatic environment.

**R61:** May cause harm to the unborn child.

**R62:** Possible risk of impaired fertility.

**Classified according to Articles 6 & 7 of Directive 1999/45/EC**

## Section 3 - Composition / Information on Ingredients

Component	ACGIH TWA	OSHA PEL	Hazard Designation	Weight Percent (%)
Lead Dioxide CAS Number: 1309-60-0 EINECS Number: 215-174-5	0.15 mg/m <sup>3</sup> (Dust)	0.05 mg/m <sup>3</sup> (Dust)	+T  N	40-45
Lead Oxide CAS Number: 1317-36-8 EINECS Number: 215-267-0	0.15 mg/m <sup>3</sup> (Dust)	0.05 mg/m <sup>3</sup> (Dust)	+T  N	10-15
Dbutylphthalate CAS Number: 84-74-2 EINECS Number: 201-557-4	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	+T  N	30-35
Chlorinated Paraffin CAS Number: 63449-39-8 EINECS Number: 264-150-0	None Esatblished	None Esatblished	N	30-35

### 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

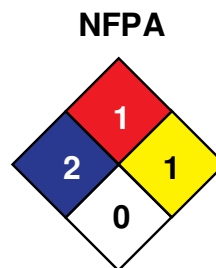
**Flash Point:** 372 °F (189 °C)

**Flash Point Method:** COC

**Flammability Classification:** Non-Flammable

**Extinguishing Media:** Dry Chemical, Carbon Dioxide Foam

**Unusual Fire or Explosion Hazards:** Fire hazard exists when in contact or in combination with oxidizable materials at high temperature.



### Section 6 - Accidental Release Measures

**Spill /Leak Procedures:** Only properly protected personnel should remain in the spill area; dike and contain spill; absorb or scrape up excess into suitable container for disposal; wash area with dilute ammonia solution. Stop or reduce discharge if it can be done safely.

### Section 7 - Handling and Storage

**Handling Precautions:** Minimize breathing of vapors and avoid prolonged or repeated contact with skin. Wear proper protective equipment. If ventilation is not sufficient, wear proper respiratory equipment. Avoid moisture contamination. Reseal partial containers. Use good general housekeeping procedures.

**Storage Requirements:** Store in cool dry, well-ventilated area.

### Section 8 - Exposure Controls / Personal Protection

**Respiratory Protection:** Follow OSHA respirator regulations 29 CFR 1910.134 and European Standard EN 149; wear an MSHA/NIOSH or European Standard EN149 approved respirator. *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 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 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.



**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:** Dark Brown  
viscous fluid, characteristic odor

**Vapor Pressure:** N/A

**Vapor Density (Air=1):** N/A

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 1.87

**pH:** N/A

**Water Solubility:** Insoluble

**Boiling Point:** N/A

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

**Viscosity:** 80-120 poise

**% Volatile:** N/A

**Evaporation Rate:** N/A

## Section 10 - Stability and Reactivity

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

**Polymerization:** Hazardous polymerization cannot occur.

**Chemical Incompatibilities:** Oxidizable materials

**Hazardous Decomposition Products:** Thermal oxidative decomposition can produce oxides of lead, hydrochloric acid, carbon dioxide and carbon monoxide.

## Section 11- Toxicological Information

### Toxicity Data:\*

**Reproductive Toxicity:** Lead crosses the placenta. Fertile females should have exposure and biological specimens carefully monitored to assure blood levels stay within CDC guidelines to protect the potential fetus.

**Mutagenicity:** Not Established

**Teratogenicity:** Sufficient evidence of teratogenic risk to humans.

**Sensitization:** N/A

## Section 12 - Ecological Information

Not Determined

## Section 13 - Disposal Considerations

**Disposal:**

RCRA Hazardous Waste Classification (40 CFR 261): Lead-containing products should be segregated and returned to a smelter for reclamation. If returned to a smelter, disposal does not come under RCRA regulations. Other disposal methods require RCRA "Hazardous Waste" designation.

## Section 14 - Transport Information

DOT	IATA	IMDG
<b>Shipping Name:</b> ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorinated Paraffin) <b>UN #: 3082</b> <b>Hazard Class: 9</b> <b>Label: Marine Pollutant</b>	<b>Shipping Name:</b> ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorinated Paraffin) <b>UN #: 3082</b> <b>Hazard Class: 9</b> <b>Label: Marine Pollutant</b>	<b>Shipping Name:</b> ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Chlorinated Paraffin) <b>UN #: 3082</b> <b>Hazard Class: 9</b> <b>Label: Marine Pollutant</b>

## Section 15 - Regulatory Information

### United States EPA Regulations:

**TSCA Inventory Status (40 CFR710):** All components of these formulation are listed in the TSCA Inventory.

**California Proposition 65:** These products contain lead and butyl benzyl phthalate, which have been identified by the state of California to cause birth defects or other reproductive harm.

### Canadian Regulations:



WHMIS Identification: **D2A, D2B**

CDSL/NDL (Canadian Domestic Substance List/Non Domestic Substance List): **Listed on CDSL**



## Section 15 - Regulatory Information (continued)

### Labeling according to EEC Directive

Risk Phrases	Symbol(s) Required for EU Label	Safety Phrases
<p><b>R20:</b> Harmful by inhalation.</p> <p><b>R22:</b> Harmful if swallowed.</p> <p><b>R33:</b> Danger of cumulative effects.</p> <p><b>R50/53:</b> Very toxic to aquatic organisms may cause long term adverse effects in the aquatic environment.</p> <p><b>R61:</b> May cause harm to the unborn child.</p> <p><b>R62:</b> Possible risk of impaired fertility</p>	 <b>+T: Toxic</b>   <b>N: Dangerous for the environment</b>	<p><b>S2:</b> Keep out of reach of children.</p> <p><b>S36/37/39:</b> Wear suitable protective clothing, gloves and eye and face protection.</p> <p><b>S45:</b> In case of accident or if you feel ill, seek medical advice immediately.</p> <p><b>S53:</b> Avoid exposure.</p> <p><b>S60:</b> This material and container must be disposed as hazardous waste.</p> <p><b>S61:</b> Avoid release to the environment. (See MSDS).</p>

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