

# **Material Safety Data Sheet**

#### **FMC-214 and FMC-215**

**MSDS No. 530** 

Date of Preparation: October 15, 2013 Revision: 0004

# **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





+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 & 7of 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.

Revision: 0004

**NFPA** 

# **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 Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators. *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 eyeand 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 (H2O=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 20,400 mg/kg Rat: >6.7 g/l for 4 hours. Rat:

### **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

IATA DOT **IMDG** 

**Shipping Name:** ENVIRONMENTALLY

**HAZARDOUS** SUBSTANCE, LIQUID,

N.O.S.

(Chlorinated Paraffin)

**UN #:** 3082

**Hazard Class:** 9

**Label:** Marine Pollutant

**Shipping Name:** 

ENVIRONMENTALLY

**HAZARDOUS** SUBSTANCE, LIQUID,

N.O.S.

(Chlorinated Paraffin)

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**HAZARDOUS** 

SUBSTANCE, LIQUID, N.O.S.

(Chlorinated Paraffin)

**UN #: 3082** Hazard Class: 9

**Label:** Marine Pollutant

Revision: 0004

# Section 15 - Regulatory Information

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

<u>California Proposition 65</u>: 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
R50/53: Very toxic to		S28: After contact with skin,
aquatic organisms may		wash immediately with plenty
cause long term adverse		of soap-suds.
effects in the aquatic		S36/37/39: Wear suitable
environment.	<b>V</b>	protective clothing, gloves and
R61: May cause harm to	+T: Toxic	eye and face protection.
the unborn child.		S45: In case of accident or if
<b>R62:</b> Possible risk of		you feel ill, seek medical
impaired fertility.		advice immediately.
		S53: Avoid exposure.
	N: Dangerous for the	S60: This material and
	environment	container must be disposed
		as hazardous waste.
		S61: Avoid release to the
		environment. (See MSDS).

### 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, 2013 Revision: 0004

# **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







+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 & 7of Directive 1999/45/EC

#### **Section 3 - Composition / Information on Ingredients** ACGIH TWA OSHA PEL **Weight Percent** Component Hazard Designation (%) Lead Dioxide 0.15 mg/m<sup>3</sup> (Dust) 0.05 mg/m<sup>3</sup> (Dust) 40-45 CAS Number: 1309-60-0 EINECS Number: 215-174-5 Lead Oxide 0.15 mg/m<sup>3</sup> (Dust) 0.05 mg/m<sup>3</sup> (Dust) 10-15 CAS Number: 1317-36-8 EINECS Number: 215-267-0 Dbutvlphthalate $5 \text{ mg/m}^3$ $5 \text{ mg/m}^3$ 30-35 CAS Number: 84-74-2 EINECS Number: 201-557-4 Chlorinated Paraffin None Esatblished None Esatblished 30-35 CAS Number: 63449-39-8 EINECS Number: 264-150-0

### **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: 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.



Revision: 0004

### 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 Standards EN 141, 143 and 371; wear an MSHA/NIOSH or European Standards EN 141, 143 and 371 approved respirators. *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 eyeand 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 Water Solubility: Insoluble

Appearance and Odor: Dark BrownBoiling Point: N/A

viscous fluid, characteristic odor

Vapor Pressure: N/A

Viscosity: 80-120 poise

Vapor Density (Air=1): N/A % Volatile: N/A

Specific Gravity (H2O=1, at 4 °C): 1.87 Evaporation Rate: N/A

pH: N/A

**MSDS No. 530** 

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

Revision: 0004

### **Section 15 - Regulatory Information**

#### **United States EPA Regulations:**

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

<u>California Proposition 65</u>: 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
R20: Harmful by		S2: Keep out of reach of
inhalation.		children.
<b>R22:</b> Harmful if swallowed.		<b>\$36/37/39:</b> Wear suitable
R33: Danger of		protective clothing, gloves and
cumulative effects.		eye and face protection.
R50/53: Very toxic to	+T: Toxic	<b>S45:</b> In case of accident or if
aquatic organisms may	TI. TOXIC	you feel ill, seek medical
cause long term adverse		advice immediately.
effects in the aquatic	NY.	<b>\$53</b> : Avoid exposure.
environment.	77	S60: This material and
R61: May cause harm to	N. Dangaraya far tha	container must be disposed
the unborn child.	N: Dangerous for the	as hazardous waste.
<b>R62:</b> Possible risk of	environment	<b>S61:</b> Avoid release to the
impaired fertility		environment. (See MSDS).

#### 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.

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