

## **Material Safety Data Sheet**

**Smooth-Cast 300 Series** 

**MSDS No. 476** 

	Smooth-Cas	st 300 Series		MSDS No. 476
	Date of Prepar	ration: April 5, 2	2012	Revision: 0010
Section 1 - C	hemical Prod	uct and Corr	pany Identificat	tion
Emergency Contact: Chem-T Domestic	lastomer c., 2000 St. John 52-5800, FAX (6	St., Easton PA		
S	ection 2 - Haz	zards Identifi	ication	
Hazard Designation:				
Europe Xn = Harmful	Canada		HMIS H 2 F 1	2
Information pertaining to pa R20: Harmful by inhalation R36/37/38: Irritating to eyes, I R40: Limited evidence of a ca R48/20: Harmful; danger of so Classified according to Arti	respiratory system arcinogenic effect erious damage to icles 6 & 7of Dir	m and skin t o health by prole <b>ective 1999/45</b> /	/EC	ough inhalation
R20: Harmful by inhalation R36/37/38: Irritating to eyes, R40: Limited evidence of a ca R48/20: Harmful; danger of s Classified according to Arti Section 3 -	respiratory system arcinogenic effect erious damage to icles 6 & 7of Dir	m and skin t o health by prole <b>ective 1999/45</b> /	onged exposure three	ough inhalation
R20: Harmful by inhalation R36/37/38: Irritating to eyes, R40: Limited evidence of a ca R48/20: Harmful; danger of s Classified according to Arti	respiratory system arcinogenic effect erious damage to icles 6 & 7of Dir Composition	m and skin t o health by prolo ective 1999/45, / Informatio	onged exposure thro /EC n on Ingredients	ough inhalation
R20: Harmful by inhalation R36/37/38: Irritating to eyes, R40: Limited evidence of a ca R48/20: Harmful; danger of s Classified according to Arti Section 3 - Component 4,4' Methylene bis(phenylisocyanate) (MDI) CAS Number: 101-68-8	respiratory system arcinogenic effect erious damage to icles 6 & 7of Dir Composition ACGIH TWA	m and skin t o health by prok ective 1999/45 / Informatio OSHA PEL 0.02 ppm	onged exposure three /EC n on Ingredients Hazard Designation	ough inhalation S Weight Percent (%)

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# Smooth-Cast 300 Series

Revision: 0010

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Section 5 - Fire-Fighting Measures

Flash Point: 262 °F (128 ℃)

Flash Point Method: COC LEL: Not Established

**UEL:** Not Established

Flammability Classification: Non-Flammable

**Extinguishing Media:** Water Fog, Dry Chemical, and Carbon Dioxide Foam **Unusual Fire or Explosion Hazards:** Hazardous decomposition products may be

formed. Avoid water contamination in closed containers or confined areas as exothermic heat and carbon dioxide can evolve.

**Fire-Fighting Instructions:** Fire fighters should wear self-contained breathing apparatus. 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.

**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: Liquid Appearance : Pale amber liquid Odor : Characteristic odor Vapor Pressure: <0.00001 @ 25 °C Vapor Density (Air=1): 8.6 Specific Gravity (H2O=1, at 4 °C): 1.10 Water Solubility: Reacts with water Boiling Point: None determined % Volatile: Nil Freezing/Melting Point: None Determined Viscosity: 1 poise Evaporation Rate: Not Applicable

### 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 can occur.

Chemical Incompatibilities: Strong bases, water, amines, alcohols.

**Conditions to Avoid:** Avoid contamination with water and other materials that react with Isocyanates.

Hazardous Decomposition Products: MDI vapors, hydrogen cyanide gas, oxides of nitrogen, carbon monoxide and carbon dioxide

### Section 11- Toxicological Information

Hazardous Component	LD50 Oral	LC50 Inhalation
4,4' Methylene bis(phenylisocyanate) (MDI)	Mouse: 2200 mg/kg Rat: 9200 mg/kg	Rat: 178 mg/m <sup>3</sup>

### Section 12 - Ecological Information

#### For MDI:

Aquatic: Rapidly hydrolyzes to form an insoluble crust. Terrestrial: Will bind with moist soil no leaching will occur. Atmospheric: Remains in the vapor phase and half life is 32 hours. Will not biodegrade.

#### Section 13 - Disposal Considerations

**Disposal:** These materials must be disposed of in accordance with local regulations.

Section 14 - Transport Information			
DOT	ΙΑΤΑ		IMDG
Not Regulated	Not Regulate	d	Not Regulated
Section 15 - Regulatory Information			
United States EPA Regulations:			
Clean Air Act SOCMI Chemical: 4, 4'	Methylene bis(pheny	lisocyanate)	Hap Code: XOV
These products contain the following chemicals that are subject to release reporting requirements under section 313 of SARA Title III.			
<u>Chemical Name</u> 4, 4' Methylene bis(pher		<u>CAS #</u> 101-68-8	<u>% by Weight</u> 60.0 Max

## Section 15 - Regulatory Information (Continued)

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

<u>California Proposition 65</u>: These products do not intentionally contain any chemicals which have been identified by the state of California to cause cancer, 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** 



### Labeling according to EEC Directive

Risk Phrases	Symbol(s) Required for EU Label	Safety Phrases
R20: Harmful by inhalation R36/37/38: Irritating to eyes, respiratory system and skin R40: Limited evidence of a carcinogenic effect R48/20: Harmful; danger of serious damage to health by prolonged exposure through inhalation	(Xn = Harmful)	<ul> <li>S1/2: Keep locked up and out of reach of children</li> <li>S23: Do not breath vapors</li> <li>S36/37: Wear suitable protective equipment.</li> <li>S45: In case of an accident or if you feel sick , seek medical attention</li> </ul>

### 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**

### **Smooth-Cast 300 Series**

**MSDS No. 476** 

Date of Preparation: April 5, 2012

Revision: 0010

## **Section 1 - Chemical Product and Company Identification**

Product/Chemical Name Smooth-Cast 300, 300Q, 305 and 310 Part B 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

Not hazardous according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and Council directive 1999/45/EC and its subsequent amendments



## Section 3 - Composition / Information on Ingredients

No hazardous ingredients

### Section 4 - First Aid Measures

Inhalation: Remove source(s) of contamination and move victim to fresh air.
 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.

**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: 262 °F (128 °C) Flash Point Method: PMCC Flammability Classification: Non-Flammable Extinguishing Media: Water Fog, Dry Chemical, and Carbon Dioxide Foam Unusual Fire or Explosion Hazards: None Fire-Fighting Instructions: Fire fighters should wear self-contained breathing apparatus. 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 face piece operated in pressure-demand or positive-pressure mode.

#### Smooth-Cast 300 Series

### **Section 6 - Accidental Release Measures**

**Spill /Leak Procedures:** Dike and contain spill; absorb or scrape up excess into suitable container for disposal. Stop or reduce discharge if it can be done safely. **Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).

## 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. 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.

**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: Liquid Appearance: Clear colorless liquid Odor: Mild odor Vapor Pressure: None (Polymeric Resin) Vapor Density (Air=1): >1 Specific Gravity (H<sub>2</sub>O=1, at 4 °C): 1.00 Water Solubility: Negligible: Boiling Point: None (Polymeric Resin) % Volatile: Nil Freezing/Melting Point: None Determined Viscosity: 1.2 poise Evaporation Rate: None (Polymeric Resin)

### 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 can not occur.

Chemical Incompatibilities: Strong acids and oxidizers.

**Conditions to Avoid:** Avoid contamination with water and other materials that react with amines. **Thermal Decomposition Products:** Oxides of nitrogen, carbon monoxide and carbon dioxide

Section 11- Toxicological Information			
Toxicity Data:			
Acute Inhalation Effects: N established Acute Oral Effects: None Established		None Established	
Se	ection 12 - Ecological Inf	ormation	
None Established			
Sec	ction 13 - Disposal Cons	iderations	
<b>Disposal:</b> These materials m	ust be disposed of in accordar	nce with applicable local regulations.	
S	ection 14 - Transport Info	ormation	
DOT	IATA	IMDG	
Not Regulated	Not Regulated	Not Regulated	
Se	ection 15 - Regulatory Inf	formation	
been identified by the state o harm WHMIS Identification: <b>Not co</b> CDSL/NDL (Canadian Dome	of California to cause cancer, bi Introlled Stic Substance List/Non Dome	Ily contain any chemicals which have irth defects or other reproductive stic Substance List): <b>All are Listed</b>	
Labeling according to EEC	Directive		
No special packaging or labeling requirements			

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