

# Safety Data Sheet

## **SDS No. 644A**

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

Product/Chemical Name: Part A for Brush-On® 40, 50, 60; EZ-Mix<sup>®</sup> 40; PMC<sup>®</sup> 121-30, PMC<sup>®</sup>-744, PMC<sup>®</sup>-746, PMC<sup>®</sup>-770, PMC®-790, PMC®-844; Renew<sup>™</sup> UR-40, UR-90; Reoflex® 20, 30, 40; UreCoat®; Vytaflex® 10, 20, 30, 40 General Use: Polyurethane Elastomer Manufacturer: Smooth-On, Inc., 5600 Lower Macungie Rd., Macungie, PA 18062 Phone (610) 252-5800, FAX (610) 252-6200 Emergency Contact: Chem-Tel Domestic: 800-255-3924 International: 813-248-0585

#### Section 2 - Hazards Identification

#### Classification of the substance or mixture

Acute toxicity, oral-Category 4 Acute toxicity, inhalation-Category 4 Acute toxicity, dermal-Category 4 Skin irritation-Category 2 Eye irritation-Category 2A Specific target organ toxicity-single exposure-Category 3 (respiratory) Carcinogenicity-Category 2 Reproductive toxicity-Category 1B

#### Pictogram:



Signal word: Danger

#### GHS Label elements, including precautionary statements Health H302 + H312 + Harmful if swallowed in contact w

Health	H302 + H312 +	Harmful if swallowed, in contact with skin or if inhaled
Hazards	H332	
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
	H351	Suspected of causing cancer.
	H360	May damage fertility or the unborn child.
General Precautions:	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P103	Read label before use.
Prevention	P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
Precautions:		
	P264	Wash skin thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.

	P271	Use only outdoors or in a well-ventilated area.
	P280	Wear protective gloves/protective clothing/eye
		protection/face protection.
Response	P301 + P312	IF SWALLOWED: Call a POISON CENTER or
Precautions:		doctor/physician if you feel unwell.
	P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
	P304 + P340	IF INHALED: Remove person to fresh air and keep
		comfortable for breathing.
	P305 + P351 +	IF IN EYES: Rinse cautiously with water for several
	P338	minutes. Remove contact lenses, if present and easy to do.
		Continue rinsing.
	P312	Call a POISON CENTER or doctor/physician if you feel
		unwell.
	P322	Rinse mouth.
	P330	If skin irritation occurs: Get medical advice/attention.
	P332 + P313	If eye irritation persists: Get medical advice/attention.
	P337 + P313	Take off contaminated clothing.
	P362	Store in a well-ventilated place. Keep container tightly
		closed.
Storage	P405	Store locked up.
Precautions:		
Disposal	P501	Dispose of contents/container to local, state and federal
Precautions:		laws

## Hazards not otherwise classified (HNOC) or not covered by GHS - lachrymator

Section 3 - Composition / Information on Ingredients

The following ingredients are hazardous according to OSHA criteria.

CAS No.	Component	% by Weight
9057-91-4	Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -hydro- $\Omega$ -hydroxy, polymer with 1,3 diisocyanatomethylbenzene	> 80
68515-48-0	Diisononyl phthalate	< 25
26471-62-5	Toluene diisocyanate	< 1

## 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.

**Ingestion:** Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

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

## Section 5 - Fire-Fighting Measures

**Flammable Classification:** Non-Flammable **Extinguishing Media:** Water Fog, Dry Chemical, and Carbon Dioxide Foam **Unusual Fire or Explosion Hazards:** None known.

**Fire-Fighting Instructions:** Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam.

**Further information:** 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.

#### 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.

#### **Environmental precautions:**

No special environmental precautions required.

#### Section 7 - Handling and Storage

Handling Precautions: Use good general housekeeping procedures. Wash hands after use.

**Storage Requirements:** Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water contamination.

#### Section 8 - Exposure Controls / Personal Protection

**Respiratory Protection:** Respiratory protection is not normally required when using this product with adequate ventilation. Should a respirator be needed, 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 equipped with organic vapor cartridges.

**Hand Protection:** Should hand protection be needed, wear any liquid-tight gloves such as butyl rubber, neoprene or PVC.

**Eye Protection:** Safety glasses with side shields 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.

**Other Protective Clothing/Equipment:** Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

**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. Wash thoroughly after handling.

## Section 9 - Physical and Chemical Properties

Appearance : clear yellow viscous liquid	Vapor Pressure: None (Polymeric Resin)	
Odor/Threshold: sharp pungent odor	Vapor Density (Air=1): >1	
pH: N.A. (non-aqueous)	Specific Gravity (H <sub>2</sub> O=1, at 4 °C): 1.04	
Melting Point/Freezing Point: N.A.	Water Solubility: Insoluble	
Low/High Boiling Point: N.A.	Partition coefficient: Not available	
Flash Point: >270 °F	Auto-ignition temperature: Not available	
Evaporation Rate: Not available	Decomposition temperature: Not available	
Flammability: f.p. at or above 200 °F	Viscosity: 50,000 centipoise	
UEL/LEL: Not available	% Volatile: Nil	
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 bases, and acids.

**Hazardous Decomposition Products:** Thermal oxidative decomposition can produce carbon oxides and traces of incompletely burned carbon compounds.

#### Section 11- Toxicological Information

Skin Corrosion/Irritation: no data

Serious Eye Damage/Irritation: no data

Respiratory/Skin Sensitization: no data

Germ Cell Mutagenicity: no data

**Carcinogenicity:** No component of this product at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGH, NTP or OSHA.

Reproductive Toxicity: no data

Specific Target Organ Toxicity - Single Exposure: no data

Specific Target Organ Toxicity - Repeated Exposure: no data

Aspiration Hazard: no data

Acute Toxicity: no data

Chronic Exposure: no data

Potential Health Effects – Miscellaneous: no data

Section 12 - Ecological Information

Toxicity: no data Persistence and Degradability: no data Bioaccumulative Potential: no data Mobility in Soil: no data Other Adverse Effects: no data

Sec	ction 13 - Disposal Considera	tions	
<b>Disposal:</b> Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.			
Empty containers retain product residue which may exhibit hazards of material, therefore to not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.			
S	ection 14 - Transport Information	tion	
DOT	ΙΑΤΑ		
DOT Nat Demulated			
Not Regulated	Not Regulated	Not Regulated	
Se	ection 15 - Regulatory Informa	tion	
United States EPA Regulation			
CERCLA Hazardous Substand Sec. 311 (b)(4); CWA, Sec. 307	, , , , , , , , , , , , , , , , , , ,	c per RCRA, Sec. 3001; CWA,	
Chemical Name	<u>RQ</u>	% Reportable Component	
Toluene Diisocyanate-	- 100 lbs.	<1.0	
SARA EHS (Extremely Hazard Chemical Name	lous Substance) (40 CFR 355) <u>CAS #</u>		
Toluene Diisocyanate		<u>% by Weight</u> <1.0	
These products contain 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>	
Toluene Diisocyanate	26471-62-5	<1.0	
<b>TSCA Inventory Status (40 CFR710):</b> All components of this formulation are listed in the TSCA Inventory.			
California Proposition 65: This product contains a chemical which has been identified by the state of California to cause cancer, birth defects or other reproductive harm.			
16 - Other Information			
HMISH2F1R1			
Revision: 1 NFPA Date Prepared: April 28, 2015			

**Glossary:** ACGIH-American Conference of Governmental Industrial Hygienists; ANSI-American National Standards Institute; Canadian TDG-Canadian Transportation of Dangerous Goods; CAS-Chemical Abstract Service: Chemtrec-Chemical Transportation Emergency Center (US); CHIP-Chemical Hazard Information and Packaging; DSL-Domestic Substances List; EC-Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA-Emergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; GHS-Globally Harmonized System of Classification and Labelling of Chemicals; HMIS-Hazardous Material Information Service; IATA-International Air Transport Association: IMDG-International Maritime Dangerous Goods Code: LC-Lethal Concentration: LD-Lethal Dose; LEL-Lower Explosion Level; NFPA-National Fire Protection Association; OEL-Occupational Exposure Limit; OSHA-Occupational Safety and Health Administration, US Dept. of Labor; PEL-Permissible Exposure Limit; SARA (Title III)-Superfund Amendments and Reauthorization Act; SARA 313-Superfund Amendments and Reauthorization Act, Section 313; SCBA-Self-Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ-Texas Commission on Environmental Quality; TLV-Threshold Limit Value; TSCA-Toxic Substances Control Act Public Law 94-469; TWA-Time Weighted Value; UEL-Upper Explosion Level; US DOT-US Department of Transportation: WHMIS-Workplace Hazardous Materials Information System.

**Disclaimer:** The information contained in this Safety Data Sheet (SDS) 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 SDS is prepared to comply with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) as prescribed by the United States (US) Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH).

Classifications of the chemical in accordance with 29 CFR 1910.1200, signal word, hazard and precautionary statement(s), symbol(s) and other information are based on listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS and EC No 1907/2006 and are considered trade secrets under US Federal Law (29 CFR and 40 CFR), Canadian Law (Health Canada Legislation), and European Union Directives.



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## 3

		Safety Data Sheet	
SDS No. 669			
	Section	on 1 - Chemical Product and Company Identification	
	nical Name	e: Part B for: Reoflex® 40 Dry and Wet; VytaFlex® 10, 20, 30, 40, and	
60 General Use:	Polyuretha	ne Flastomer	
Manufacturer			
		ver Macungie Rd., Macungie, PA 18062	
<b>F</b>	· ·	10) 252-5800, FAX (610) 252-6200	
Emergency C		em-Tel c: 800-255-3924 International: 813-248-0585	
		Section 2 - Hazards Identification	
Classification	of the sub	ostance or mixture	
Caraina	genicity-Cat	togon/2	
•		ty-Category 1B	
Pictogram:			
Signal word:	Danger		
GHS Label ele	ements, in	cluding precautionary statements	
Health	H351	Suspected of causing cancer	
Hazards:	H360	May damage fertility or the unborn child	
	11300	May damage lenning of the unborn child	
General Precautions:	P101	If medical advice is needed, have product container or label at hand.	
	P102	Keep out of reach of children.	
	P103	Read label before use.	
Prevention	P202	Do not handle until all safety precautions have been read and understood.	
Precautions:	P280	Wear protective gloves/protective clothing/eye protection/face	
		protection.	
Response	P308 +	IF exposed or concerned: Get medical advice/ attention.	
Precautions:	P313		
Storage Precautions:	P405	Store locked up.	
Disposal	P501	Dispose of contents/container according to local, state and federal	
Precautions:		laws.	
Hazards not otherwise classified (HNOC) or not covered by GHS – none known			

	Section 3 - Composition / Information on Ingredients			
The following ingredients are hazardous according to OSHA criteria.				
CAS No.	Component	% by Weight		
68515-48-0	Diisononyl phthalate 20 – 50			
68479-98-1	Diethyltoluenediamine	1 – 5		
	Section 4 - First Aid Measures			
<ul> <li>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.</li> <li>Eye Contact: Flush eyes with plenty of water. If irritation persists, seek medical attention.</li> <li>Skin Contact: In case of skin contact, wash thoroughly with soap and water.</li> <li>Ingestion: Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.</li> <li>After first aid, get appropriate in-plant, paramedic, or community medical support.</li> </ul>				
Flammable Classi	Section 5 - Fire-Fighting Measures fication: Non-Flammable			
<ul> <li>Extinguishing Media: Water Fog, Dry Chemical, and Carbon Dioxide Foam Unusual Fire or Explosion Hazards: None known.</li> <li>Fire-Fighting Instructions: Use water spray to cool fire-exposed surfaces and to protect personnel. Shut off "fuel" to fire. If a leak or spill has not ignited, use water spray to disperse the vapors. Either allow fire to burn under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam.</li> <li>Further information: 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.</li> </ul>				
Section 6 - Accidental Release Measures				
<b>Spill /Leak procedures:</b> 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.				
Environmental precautions: Prevent further leakage or spillage.				
Section 7 - Handling and Storage				
Handling Precautions: Ensure good ventilation at the workplace. Use good general housekeeping procedures. Wash hands after use.				

**Storage Requirements:** Keep container(s) tightly closed and properly labeled. Store in cool, dry, well ventilated place away from heat, direct sunlight, strong oxidizers and any incompatibles. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Avoid water containnation.

#### Section 8 - Exposure Controls / Personal Protection

**Respiratory Protection:** Respiratory protection is not normally required when using this product with adequate ventilation. Should a respirator be needed, 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 equipped with organic vapor cartridges.

Hand Protection: Wear chemically resistant gloves such as butyl rubber, neoprene or PVC.

**Eye Protection:** Safety glasses with side shields 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.

**Other Protective Clothing/Equipment:** Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower.

**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. Wash thoroughly after handling.

#### Section 9 - Physical and Chemical Properties

Appearance : clear yellow viscous liquid Odor/Threshold: sharp pungent odor pH: N.A. (non-aqueous) Melting Point/Freezing Point: N.A. Low/High Boiling Point: N.A. Flash Point: >270 °F Evaporation Rate: Not available Flammability: f.p. at or above 200 °F UEL/LEL: Not available Vapor Pressure: None (Polymeric Resin) Vapor Density (Air=1): >1 Specific Gravity (H2O=1, at 4 °C): 1.04 Water Solubility: Insoluble Partition coefficient: Not available Auto-ignition temperature: Not available Decomposition temperature: Not available Viscosity: 300 – 500 centipoise % Volatile: Nil

## 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 bases, and acids.

**Hazardous Decomposition Products:** Thermal oxidative decomposition can produce carbon oxides and traces of incompletely burned carbon compounds.

	Section 11- Toxicological Inform	nation		
Skin Corrosion/Irritation: Rabbit – 4 h – no skin irritation (OECD TG 404) Serious Eye Damage/Irritation: Rabbit – no eye irritation (OECD TG 405) Respiratory/Skin Sensitization: Buehler Test – guinea pig – does not cause skin sensitization Germ Cell Mutagenicity: no data Carcinogenicity:				
	onyl phthalate has been listed by the S	State of California as a chemical		
No component of th	No component of this product at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, ACGH, NTP or OSHA.			
Specific Target Organ Toxicity – Single Exposure: no data Specific Target Organ Toxicity – Repeated Exposure: no data Aspiration Hazard: no data Acute Toxicity:				
LD50 Oral – Rat – male and female - >50,000 mg/kg (OECD TG 401) LC50 Inhalation – Rat – 4 h - > 22 mg/l LD50 Dermal – Rabbit - > >15,800 mg/kg Chronic Exposure: no data				
Potential Health Effects	- Miscellaneous: no data			
	Section 12 - Ecological Informa	ation		
Toxicity:       toxicity to fish       semi-static test LC50 (Danio rerio) - >510 mg/l – 96 h         toxicity to daphnia       growth inhibition (Daphnia magna) - >370 mg/l – 48 h         toxicity to algae       static test EC50 (Desmodesmus subspicatus) - > 440 mg/l – 72 h         Persistence and Degradability: no data       Bioaccumulative Potential: no data         Mobility in Soil: no data       Mobility in Soil: no data				
Other Adverse Effects:	no data			
Section 13 - Disposal Considerations				
Disposal: Lindor PCPA				
<b>Disposal:</b> Under RCRA it is the responsibility of the user of the product to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state and local laws.				
Empty containers retain product residue which may exhibit hazards of material, therefore to not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.				
Section 14 - Transport Information				
DOT	DOT IATA IMDG			
Not Regulated	Not Regulated	Not Regulated		

#### Section 15 - Regulatory Information

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

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

<u>California Proposition 65</u>: This product contains a chemical which has been identified by the state of California to cause cancer, birth defects or other reproductive harm.

#### **16 - Other Information**





Revision: 1 Date Prepared: April 28, 2015

**Glossary:** ACGIH-American Conference of Governmental Industrial Hygienists; ANSI-American National Standards Institute: Canadian TDG-Canadian Transportation of Dangerous Goods: CAS-Chemical Abstract Service: Chemtrec-Chemical Transportation Emergency Center (US); CHIP-Chemical Hazard Information and Packaging; DSL-Domestic Substances List; EC-Equivalent Concentration; EH40 (UK)-HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA-Emergency Planning and Community Right-To-Know Act; ESL-Effects screening levels; GHS-Globally Harmonized System of Classification and Labelling of Chemicals; HMIS-Hazardous Material Information Service; IATA-International Air Transport Association; IMDG-International Maritime Dangerous Goods Code; LC-Lethal Concentration; LD-Lethal Dose; LEL-Lower Explosion Level; NFPA-National Fire Protection Association; OEL-Occupational Exposure Limit; OSHA-Occupational Safety and Health Administration, US Dept. of Labor; PEL-Permissible Exposure Limit; SARA (Title III)-Superfund Amendments and Reauthorization Act; SARA 313-Superfund Amendments and Reauthorization Act. Section 313: SCBA-Self-Contained Breathing Apparatus; STEL-Short Term Exposure Limit; TCEQ-Texas Commission on Environmental Quality; TLV-Threshold Limit Value; TSCA-Toxic Substances Control Act Public Law 94-469; TWA-Time Weighted Value; UEL-Upper Explosion Level; US DOT-US Department of Transportation; WHMIS-Workplace Hazardous Materials Information System.

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