

# **Material Safety Data Sheet**

Brush-On® 40, 50 and 60

Date of Preparation: February 18. 2014 Revision: 0007

**MSDS No. 638** 

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Brush On 40, 50 and 60 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



Xn: Harmful





#### Risk Phrases pertaining to particular dangers

**R20:** Harmful by inhalation.

**R40**: Limited evidence of a carcinogenic effect. **R42**: May cause sensitization by inhalation.

## 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 (%)
diisononyl phthalate CAS Number: 68515-48-0 EINECS Number: 271-090-9	None Established	None Established	None	<10
polyurethane prepolymer CAS Number: 9057-91-4 EINECS Number: None	None Established	None Established	None	>89
toluene diisocyanate CAS Number: 26471-62-5 EINECS Number: 247-722-4	0.036 mg/m <sup>3</sup>	0.005 ppm	Xn	<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; 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: >270 °F (132 °C) Flash Point Method: TOC

LEL: Not Established
UEL: Not Established

Flammability Classification: Non-Flammable

Extinguishing Media: Water Fog, Dry Chemical, 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 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.

# 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, 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 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.











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**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 Water Solubility: Negligible:

Appearance : Clear yellow viscous liquid Boiling Point: None (Polymeric Resin)

Odor : Sharp pungent odor % Volatile: Nil

Vapor Pressure: None (Polymeric Resin) Freezing/Melting Point: None (Polymeric

Vapor Density (Air=1): >1 Resin)

Specific Gravity (H2O=1, at 4 °C): 1.04 Viscosity: 50 poise

#### 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: TDI vapors, hydrogen cyanide gas, oxides of nitrogen,

carbon monoxide and carbon dioxide

### **Section 11- Toxicological Information**

Hazardous Component	LD50 Oral	LC50 Inhalation
Toluene Diisocyanate (TDI)	5 5	Rat: 140ppm/4hr. Mouse: 10ppm/4hr.

# **Section 12 - Ecological Information**

None Established

## **Section 13 - Disposal Considerations**

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

# **Section 14 - Transport Information**

DOT IATA IMDG

Not Regulated Not Regulated Not Regulated

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

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

CERCLA Hazardous Substance (40 CFR 302.4) listed specific per RCRA, Sec. 3001; CWA,

Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112

Chemical Name RQ % Reportable Component

Toluene Diisocyanate 100 lbs. <1.0

SARA EHS (Extremely Hazardous Substance) (40 CFR 355):

Chemical Name CAS # % by Weight

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Toluene Diisocyanate

26471-62-5

<1.0

## **Section 15 - Regulatory Information (Continued)**

These products contain the following chemicals that are subject to release reporting requirements under **section 313 of SARA Title III.** 

**Chemical Name** 

<u>CAS #</u>

% by Weight

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Toluene Diisocyanate

26471-62-5

<1.0

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

California Proposition 65 Warning: This product contains a chemical that has been identified by the State of California to cause cancer.

#### 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. R40: Limited evidence of a carcinogenic effect. R42: May cause sensitization by inhalation	(Xn = Harmful)	S1/2: Keep locked up and out of reach of children S23: Do not breath vapors S36/37: Wear suitable protective equipment. S45: In case of an accident or if you feel sick, seek medical attention S61: Avoid release to the environment. Refer to special instructions/safety data sheets.

#### 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



# **Material Safety Data Sheet**

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Product/Chemical Name: Brush On 40, 50 and 60 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

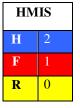
## **Section 2- Hazards Identification**

#### **Hazard Designation:**

Europe Canada







Xn:= Harmful

#### Risk Phrases pertaining to particular dangers

R21/22: Harmful in contact with skin and if swallowed.

R36: Irritating to eyes.

R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed.

## **Section 3 - Composition / Information on Ingredients**

Component	ACGIH TWA	OSHA PEL	Hazard Designation	Weight Percent (%)
diisononyl phthalate CAS Number: 68515-48-0 EINECS Number: 271-090-9	None Established	None Established	None	5-25
diethyltoluenediamine CAS Number: 68479-98-1 EINECS Number: 270-877-4	None Established	None Established	<b>X</b> Xn ₩ N	1-5
phenylmercuric neodecanoate CAS Number: 26545-49-3 EINECS Number: 247-783-7	None Established	None Established	Xn	<0.25

#### **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: >270 °F (132 °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.

#### **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 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, 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 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.

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**Section 9 - Physical and Chemical Properties** 

Physical State: Paste Water Solubility: Negligible:

Appearance : Off-White Boiling Point: None (Polymeric Resin)

Odor : Mild odor % Volatile: Nil

Vapor Pressure: None (Polymeric Resin) Freezing/Melting Point: None Determined

Vapor Density (Air=1): >1 Viscosity: Not Applicable

Specific Gravity (H2O=1, at 4 °C): 1.3 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**

None Established

# **Section 12 - Ecological Information**

None Established

### **Section 13 - Disposal Considerations**

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

# **Section 14 - Transport Information**

DOT IATA IMDG

Not Regulated Not Regulated Not Regulated

# **Section 15 - Regulatory Information**

**United States EPA Regulations:** 

**SARA Toxic Chemical (40 CFR 372.65):** These products contain the following chemicals that are subject to release reporting requirements under section 313 of SARA Title III.

Components That Require Reporting RQ % of Reportable Component

Mercury (as part of catalyst) 1 lb. 0.074

**US TSCA Inventory Status (40 CFR 710):** All components of these products are listed on the TSCA inventory.

California Proposition 65 Warning: This product contains a chemical that has been identified by the State of California to cause cancer.

## **Section 15 - Regulatory Information (Continued)**

#### 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
R21/22: Harmful in contact with skin and if swallowed. R36: Irritating to eyes. R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed.	Xn = Harmful	S2: Keep out of reach of children. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S28: After contact with skin, wash immediately with plenty of soap-suds. S36/37/39: Wear suitable protective clothing, gloves and eye and face protection. S60: This material and 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.

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