



# Material Safety Data Sheet

Task 12

MSDS No. 447

Date Of Preparation: November 2, 2013

Revision: 0005

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Task 12 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



+T = Toxic

Canada



HMIS	
H	3
F	1
R	1

**Information pertaining to particular dangers**

**Risk Phrases:**

**R23:** Toxic by inhalation

**R36/37/38:** Irritating to eyes, respiratory system and skin

**R42/43:** May cause sensitization by inhalation and skin contact.

**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 (%)
Dicyclohexylmethane-4, 4'-diisocyanate CAS Number: 5124-30-1 EINECS Number: 225-863-2	0.005 ppm	0.01 ppm	+T = Toxic	30-40

## 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:** 369°F (187.2°C)      **LEL:** Not Established      **UEL:** Not Established

**Flash Point Method:** PMCC

**Flammability Classification:** Non-Flammable

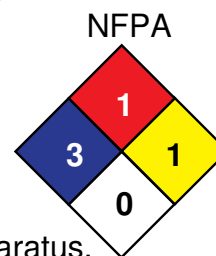
**Extinguishing Media:** Water Fog, Dry Chemical, and Carbon Dioxide Foam

**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 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.

**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. 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 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

<p><b>Physical State:</b> Liquid  <b>Appearance :</b> Colorless liquid  <b>Odor :</b> Musty odor  <b>Vapor Pressure:</b> &lt;0.001 mmHg @ 25 °C  <b>Vapor Density (Air=1):</b> None Established  <b>Specific Gravity (H<sub>2</sub>O=1, at 4 °C):</b> 1.08</p>	<p><b>Water Solubility:</b> Negligible, Reacts with water  <b>Boiling Point:</b> None Established  <b>% Volatile:</b> Nil  <b>Freezing/Melting Point:</b> None Established  <b>Viscosity:</b> 2.5 poise  <b>Evaporation Rate:</b> Not Applicable</p>
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## Section 10 - Stability and Reactivity

**Stability:** This product is 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:** Dicyclohexylmethane-4, 4'-diisocyanate vapors, hydrogen cyanide gas, and oxides of nitrogen, carbon monoxide and carbon dioxide.

## Section 11- Toxicological Information

**Acute Toxicity:**

Oral LD 50: Greater than 11,000 mg/kg (Rat)

Dermal LD50: 10,000 mg/kg (Rabbit)

Not corrosive according to D.O.T corrosivity test (49CFR173.136)

**Eye Effects:** Irritation

**Skin Effects:** Irritation

**Mutagenicity:** Negative Ames test

**Teratogenicity:** None Determined

## Section 12 - Ecological Information

None Established

## Section 13 - Disposal Considerations

**Disposal:** This material must be disposed of in accordance with applicable Federal, state and local regulations. Incineration is the best possible method for disposal.

## 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):** This product contains 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>
Dicyclohexylmethane-4, 4'-diisocyanate	5124-30-1	40.0 Max

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

## Section 15 - Regulatory Information ( continued)

California Proposition 65: This product does 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
<p><b>R20</b>: Harmful by inhalation  <b>R36/37/38</b>: Irritating to eyes, respiratory system and skin  <b>R40</b>: Limited evidence of a carcinogenic effect  <b>R48/20</b>: Harmful; danger of serious damage to health by prolonged exposure through inhalation</p>	<div style="text-align: center;">             T: = Toxic         </div>	<p><b>S1/2</b>: Keep locked up and out of reach of children  <b>S26</b>: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  <b>S28</b>: After contact with skin, wash immediately with plenty of soap and water.  <b>S38</b>: In case of insufficient ventilation, wear suitable respiratory equipment.  <b>S45</b>: In case of an accident or if you feel sick, seek medical attention</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

Task 12

MSDS No. 447

Date Of Preparation: November 2, 2013

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## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Task 12 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



HMIS	
H	2
F	1
R	0

+T: Toxic    Xn = Harmful    N: Dangerous for the environment

**Risk Phrases pertaining to particular dangers:**

**R20/21/22:** Harmful by inhalation, contact with skin and if swallowed.

**R33:** Danger of cumulative effects.

**R52/R53:** Harmful 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 (%)
Di(methylthio)toluene diamine CAS Number: 106264-79-3 EINECS Number: None	None Established	None Established	Xn	55-60
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	5-8

## 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; 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:** PMCC

**Flash Point Method:** TCC

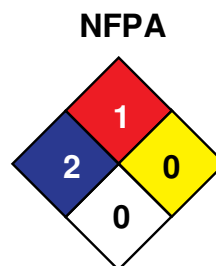
**Flammability Classification:** Non-Flammable

**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 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:** Liquid

**Appearance :** Dark amber to dark brown liquid

**Odor :** Sharp pungent odor

**Vapor Pressure:** None (Polymeric Resin)

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

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 1.05

**Water Solubility:** Negligible:

**Boiling Point:** None (Polymeric Resin)

**% Volatile:** Nil

**Freezing/Melting Point:** None Determined

**Viscosity:** 7 poise

**Evaporation Rate:** None (Polymeric Resin)

## Section 10 - Stability and Reactivity

**Stability:** This product is 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:** None Established

**Acute Oral Effects:** None Established

**Reproductive Toxicity:** None Established

**Mutagenicity:** None Established

**Teratogenicity:** None Established

**Sensitization:** None Established

## Section 12 - Ecological Information

None Established

## Section 13 - Disposal Considerations

**Disposal:** This material must be disposed of in accordance with applicable Federal, state and local regulations.

## Section 14 - Transport Information

### DOT

Not Regulated

### IATA

Not Regulated

### IMDG

**Shipping Name:**  
ENVIRONMENTALLY  
HAZARDOUS  
SUBSTANCE, LIQUID, N.O.S.  
(dibutyl phthalate mixture)  
**UN #:** 3082  
**Hazard Class:** 9  
**Label:** Marine Pollutant

## Section 15 - Regulatory Information

**TSCA Inventory Status (40 CFR 710):** All components of this product is listed on the TSCA inventory.

California Proposition 65: This product contains dibutyl phthalate, which has been identified by the state of California to cause birth defects or other reproductive harm.

## 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

**R20/21/22:** Harmful by inhalation, contact with skin and if swallowed.

**R33:** Danger of cumulative effects.

**R52/R53:** Harmful 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.



**+T: Toxic**



**Xn: Harmful**



**N: Dangerous for the environment**

**S1/2:** Keep locked up and out of reach of children.

**S36/37/39:** Wear suitable protective clothing, gloves and eye and face protection.

**S45:** In case of accident or if you feel ill, seek medical advice immediately.

**S53:** Avoid exposure.

**S60:** This material and container must be disposed as hazardous waste.

**S61:** Avoid release to the environment. (See MSDS).

## 16 - Other Information

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