Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Clear Flex 30 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

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

<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH TWA</th>
<th>OSHA PEL</th>
<th>Hazard Designation</th>
<th>Weight Percent (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dicyclohexylmethane-4, 4' diisocyanate</td>
<td>0.005 ppm</td>
<td>0.01 ppm</td>
<td>+T = Toxic</td>
<td>30-40</td>
</tr>
<tr>
<td>CAS Number: 5124-30-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EINECS Number: 225-863-2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Flash Point: 369°F (187.2°C)</th>
<th>LEL: Not Established</th>
<th>UEL: Not Established</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point Method: PMCC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability Classification: Non-Flammable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extinguishing Media: Water Fog, Dry Chemical, and Carbon Dioxide Foam</td>
<td></td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fire-Fighting Instructions: Fire fighters should wear self-contained breathing apparatus. Do not release runoff from fire control methods to sewers or waterways.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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 Standard EN 149; wear an MSHA/NIOSH or European Standard EN149 approved respirator. 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: Colorless liquid
Odor: Musty odor
Vapor Pressure: <0.001 mmHg @ 25°C
Vapor Density (Air=1): None Established
Specific Gravity (H2O=1, at 4 °C): 1.08
Water Solubility: Negligible, Reacts with water
Boiling Point: None Established
% Volatile: Nil
Freezing/Melting Point: None Established
Viscosity: 2.5 poise
Evaporation Rate: Not Applicable

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

<table>
<thead>
<tr>
<th>DOT</th>
<th>IATA</th>
<th>IMDG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Regulated</td>
<td>Not Regulated</td>
<td>Not Regulated</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dicyclohexylmethane-4, 4'-diisocyanate</td>
<td>5124-30-1</td>
<td>40.0 Max</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Risk Phrases</th>
<th>Symbol(s) Required for EU Label</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>R20</strong>: Harmful by inhalation</td>
<td></td>
<td><strong>S1/2</strong>: Keep locked up and out of reach of children</td>
</tr>
<tr>
<td><strong>R36/37/38</strong>: Irritating to eyes, respiratory system and skin</td>
<td></td>
<td><strong>S26</strong>: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice</td>
</tr>
<tr>
<td><strong>R40</strong>: Limited evidence of a carcinogenic effect</td>
<td></td>
<td><strong>S28</strong>: After contact with skin, wash immediately with plenty of soap and water.</td>
</tr>
<tr>
<td><strong>R48/20</strong>: Harmful; danger of serious damage to health by prolonged exposure through inhalation</td>
<td></td>
<td><strong>S38</strong>: In case of insufficient ventilation, wear suitable respiratory equipment.</td>
</tr>
<tr>
<td></td>
<td><strong>T</strong>: = Toxic</td>
<td><strong>S45</strong>: In case of an accident or if you feel sick, seek medical attention</td>
</tr>
</tbody>
</table>

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.

### Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Clear Flex 30 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


### 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:** >390° F (199°C)  
**Flash Point Method:** COC  
**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

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Water clear liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Sharp pungent odor</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>None (Polymeric Resin)</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>(Air=1): &gt;1</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>(H₂O=1, at 4 °C): 1.03</td>
</tr>
</tbody>
</table>

**Water Solubility:** Negligible:

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

**% Volatile:** Nil

**Freezing/Melting Point:** None Determined

**Viscosity:** 4-5 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

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## 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 does not intentionally contain any chemicals which have been identified by the state of California to cause cancer, birth defects or other reproductive harm.

## 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.