Section 1 - Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier
Trade Name: Black Panther 85 (formerly Black Cat 85) Flexible Black Repair Adhesive – Part A

1.2 Relevant identified uses of the substance or mixture and uses advised against
General Use: Formulated Polyurethane Isocyanate
Restrictions on Use: None known

1.3 Details of the supplier of the safety data sheet:
Company: Smooth-On, Inc., 5600 Lower Macungie Rd., Macungie, PA 18062
Telephone: Phone (610) 252-5800
E-mail address of person: Visit our website at www.smooth-on.com or email sds@smooth-on.com

1.4 Emergency Contact: Chem-Tel Domestic: 800-255-3924 International: 813-248-0585

Section 2 – Hazard(s) Identification

2.1 Classification of the substance or mixture:
GHS Classification in accordance with 29 CFR 1910.1200 (OSHA HCS)

H315 Skin corrosion/irritation – Category 2
H317 Skin sensitization – Category 1
H319 Eye irritation – Category 2A
H332 Acute toxicity, inhalation – Category 4
H334 Respiratory Sensitization – Category 1
H335 Specific target organ toxicity – single exposure – Category 3 (respiratory)
H351 Carcinogenicity – Category 2
H373 Specific Target Organ Toxicity, repeated exposure Category 2 (respiratory)
H400 Chronic Aquatic Toxicity – Category 1

2.2 GHS Label elements, including precautionary statements

Pictogram(s):
Signal word: Danger

Health Hazards
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 May cause respiratory irritation
H351 Suspected of causing cancer.
H373 May cause damage to organs (Olfactory organs) through prolonged or repeated exposure.

Environmental Hazards
H400 Very toxic to aquatic life.

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 Precautions
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P284 [In case of inadequate ventilation] wear respiratory protection.

Response Precautions
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P360 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P311 If exposed or concerned: Call a POISON CENTER or doctor/physician.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P314 Get medical advice/attention if you feel unwell.
P332 + P313 IF SKIN irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.

Storage Precautions
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal Precautions
P501 Dispose of contents/container according to local, state and federal laws.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none known
This product contains a chemical known to be hazardous according to California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65). (See also Section 3 and 15)

### Section 3 - Composition / Information on Ingredients

#### 3.1 Substances/Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Classification</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4’-Methylenebis(phenyl isocyanate)</td>
<td>Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; Resp. Sens. 1; Skin Sens. 1; Carc. 2; STOT SE 3; STOT RE 2; H315, H317, H319, H332, H334, H335, H351, H373</td>
<td>10 – 20</td>
</tr>
</tbody>
</table>

**Polymethylene polyphenyl isocyanates**
**Butyl benzyl phthalate** is included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH).

For the full text of the H-Statements mentioned in this Section, see Section 16.

### Section 4 - First Aid Measures

**4.1 Description of 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.

**4.2 Most important symptoms and effects, both acute and delayed.**
None known.

**4.3 Indication of any immediate medical attention and specific treatment needed.**

### Section 5 - Fire-Fighting Measures

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

**5.2 Special hazards arising from the substance or mixture**
None known.

**5.3 Advice for firefighters**
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. 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

**6.1 Personal precautions, protective equipment and emergency procedures**
Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely.

6.2 **Environmental precautions**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains or unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. No special environmental precautions required.

6.3 **Methods and material for containment and cleaning up**

Put on appropriate protective gear including NIOSH/MSHA approved self-contained breathing apparatus, rubber boots and heavy rubber gloves. 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. Follow applicable OSHA regulations (29 CFR 1910.120) for disposal.

6.4 **Reference to other sections**

See Section 3 for list of Hazardous Ingredients; Sections 8 for Exposure Controls; and Section 13 for Disposal.

### Section 7 - Handling and Storage

7.1 **Precautions for safe handling**

Use good general housekeeping procedures. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices.

7.2 **Conditions for safe storage, including any incompatibilities**

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 local 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.

7.3 **Specific end use(s):** These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

### Section 8 - Exposure Controls / Personal Protection

8.1 **Control parameters**

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Value</th>
<th>Control Parameters</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4′-Methylenebis(phenyl isocyanate)</td>
<td>101-68-8</td>
<td>CLV</td>
<td>0.02 ppm 0.2 mg/m³</td>
<td>USA. OSHA Permissible Exposure Limit (PEL)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>0.005 ppm</td>
<td>USA. ACGIH Threshold Limit Values (TLV)</td>
</tr>
<tr>
<td>Polymethylene polyphenyl isocyanates</td>
<td>9013-87-9</td>
<td>CLV</td>
<td>0.02 ppm 0.2 mg/m³</td>
<td>USA. OSHA Permissible Exposure Limit (PEL)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>0.005 ppm</td>
<td>USA. ACGIH Threshold Limit Values (TLV)</td>
</tr>
</tbody>
</table>
8.2 Exposure controls
Respiratory Protection
Respiratory protection is not normally required when using this product with adequate local exhaust ventilation. Where risk assessment shows air-purifying respirators are appropriate, 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 appropriate filter cartridges as a backup to engineering controls.

Hand Protection
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

9.1 Information on basic physical and chemical properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>Brown liquid</td>
</tr>
<tr>
<td>Vapor pressure:</td>
<td>0.00016 mmHg (68 °F)</td>
</tr>
<tr>
<td>Odor:</td>
<td>Characteristic odor</td>
</tr>
<tr>
<td>Vapor density (Air=1):</td>
<td>8.6</td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>No data</td>
</tr>
<tr>
<td>Relative density:</td>
<td>No data</td>
</tr>
<tr>
<td>pH:</td>
<td>No data</td>
</tr>
<tr>
<td>Solubility in water:</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Melting / freezing point:</td>
<td>37°F</td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water):</td>
<td>No data</td>
</tr>
<tr>
<td>Low / high boiling point:</td>
<td>&gt;390°F</td>
</tr>
<tr>
<td>Auto-ignition temperature:</td>
<td>No data</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>390°F</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>No data</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>No data</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>100 cPs</td>
</tr>
<tr>
<td>Flammability (solid, gas):</td>
<td>No data</td>
</tr>
<tr>
<td>Explosive properties:</td>
<td>No data</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits:</td>
<td>No data</td>
</tr>
<tr>
<td>Specific Gravity (H2O=1, at 4 °C):</td>
<td>1.1</td>
</tr>
</tbody>
</table>

Section 10 - Stability and Reactivity

10.1 Reactivity
No hazardous reactions if stored and handled as prescribed/indicated., No corrosive effect on metal. Not fire propagating. Reacts with water with formation of carbon dioxide. Risk of bursting.

10.2 Chemical stability: These products are stable at room temperature in closed containers under normal storage and handling conditions.
10.3 Possibility of hazardous reactions
   Hazardous polymerization cannot occur.

10.4 Conditions to avoid
   Reacts with water with formation of carbon dioxide. Risk of bursting.

10.5 Incompatible materials
   Water (and moisture) strong bases and acids.

10.6 Hazardous decomposition products
   Thermal oxidative decomposition can produce carbon oxides, gasses/vapors, and traces of incompletely burned carbon compounds.

Section 11- Toxicological Information

11.1 Information on toxicological effects

   Acute Toxicity

   4,4’ Methylene bis(phenylisocyanate) (MDI)
   LD50, oral - >10,000 mg/kg (rat)
   LD50, dermal - > 10,000 mg/kg (rabbit)
   LC50, inhalation – 2.24 mg/l (rat, 1 hour, aerosol): at room temperature, vapors are minimal due to low volatility. Data based on spray operations.

   Skin Corrosion/Irritation
   Prolonged contact may cause slight irritation with local redness; may stain skin.

   Serious Eye Damage/Irritation
   Draize test (rabbit): irritating (based on MDI); may cause moderate eye irritation; may cause slight temporary corneal injury

   Respiratory/Skin Sensitization
   Skin contact may cause an allergic skin reaction; animal studies have shown that skin contact with isocyanates may play a role in respiratory sensitization; may cause allergic respiratory reaction.

   Germ Cell Mutagenicity
   Genetic toxicity data on MDI are inconclusive.

   Carcinogenicity
   IARC – Group 3, not classifiable as to its carcinogenicity in humans (MDI and butyl benzyl phthalate). No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by 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
Based on physical properties, not likely to be an aspiration hazard.

Potential Health Effects – Miscellaneous
No data

Section 12 - Ecological Information

12.1 Toxicity
LC0 (96 h): > 6,700 mg/l, Brachydanio rerio
EC50 (24 h): > 6,700 mg/l, Daphnia magna
EC0 (72 h, static): >10,900 mg/l (growth rate), Scenedesmus subspicatus
LC50 (96 h): 2.8 mg/l, Lepomis macrochirus
NOEC (96 h): 0.8 mg/l, Oncorhynchus mykiss
LC50, flow through (96 h): 3.5 mg/l Pimephales promelas
EC50 (72 h): 0.52 mg/l, Desmodesmus subspicatus

12.2 Persistence and Degradability
Poorly biodegradable. This product is unstable in water. The elimination data also refer to products of hydrolysis.

12.3 Bioaccumulative Potential
Significant accumulation in organisms is not to be expected. Bioconcentration factor >200.

12.4 Mobility in Soil
Adsorption to solid soil phase is not expected.

12.5 Results of PBT and vPvB assessment
No data

12.6 Other Adverse Effects
The substance will not evaporate into the atmosphere from the water surface.

Section 13 - Disposal Considerations

13.1 Waste treatment methods
Under Resource Conservation and Recovery Act (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 as defined in 40 CFR Part 261. 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

Regulated by DOT, IATA or IMDG

14.1 UN number
3082

14.2 UN proper shipping name
Environmentally hazardous substance, liquid, n.o.s. (Butyl Benzyl Phthalate Mixture)
14.3 Transport hazard class(s)  
9

14.4 Packing group  
III

14.5 Environmental hazards  
Marine pollutant

14.6 Special precautions for user  
None known

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  
Not applicable

**Section 15 - Regulatory Information**

15.1 Safety health and environmental regulations/legislation specific for the substance or mixture

REACH: Regulation (EC) No 1907/2006 of The European Parliament and of The Council of December 2006 (including amendments and corrigenda as of 17 February 2016): This product is subject to regulation under REACH. The product contains the following ingredient(s) listed on either the Candidate List or Authorization List for Substances of Very High Concern (SVHC):

- butyl benzyl phthalate  85-68-7

In the United States (EPA Regulations)  
TSCA Inventory Status (40 CFR710)  
All components of this formulation are listed in the TSCA Inventory. No component of this formulation has been determined to be subject to manufacturing or use restrictions under the Significant New Use Rules (SNURs).

SARA 302 Components  
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS#</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,4'-Methylenebis(phenyl isocyanate)</td>
<td>101-68-8</td>
<td>25 – 50</td>
</tr>
<tr>
<td>Polymethylene polyphenyl isocyanates</td>
<td>9013-87-9</td>
<td>50 – 75</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazards  
Immediate (Acute), Delayed (Chronic)

**KEEP OUT OF REACH OF CHILDREN**

**WARNING:** Known to the State of CA to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

15.2 Chemical safety assessment: No chemical safety assessment has been carried out for this substance/mixture by the supplier.
Full text of H-Statements referred to under Sections 2 and 3.

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs (Olfactory organs) through prolonged or repeated exposure.
H400 Very toxic to aquatic life.

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; 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; 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.
SAFETY DATA SHEET
SDS No. 1414B
Revision Date: 11/30/2017
Version: 2.0

Section 1 - Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier
Trade Name: Black Panther 85 (formerly Black Cat 85) Flexible Black Repair Adhesive – Part B

1.2 Relevant identified uses of the substance or mixture and uses advised against
General Use: Polyurethane Elastomer
Restrictions on Use: None known

1.3 Details of the supplier of the safety data sheet:
Company: Smooth-On, Inc.,
5600 Lower Macungie Rd., Macungie, PA 18062
Telephone: Phone (610) 252-5800
E-mail address of person: Visit our website at www.smooth-on.com or email sds@smooth-on.com

1.4 Emergency Contact: Chem-Tel Domestic: 800-255-3924 International: 813-248-0585

Section 2 – Hazard(s) Identification

2.1 Classification of the substance or mixture
Not a hazardous substance or mixture according to United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS) and Regulation (EC) No 1272/2008 and subsequent amendments.

2.2 GHS Label elements, including precautionary statements
Pictogram(s): none
Signal word: none

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.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none

Section 3 - Composition / Information on Ingredients

3.1 Substances

Section 4 - First Aid Measures

4.1 Description of 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.

4.2 **Most important symptoms and effects, both acute and delayed.**
None known.

4.3 **Indication of any immediate medical attention and specific treatment needed.**

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### Section 5 - Fire-Fighting Measures

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

5.2 **Special hazards arising from the substance or mixture**
None known.

5.3 **Advice for firefighters**
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. 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

6.1 **Personal precautions, protective equipment and emergency procedures**
Only properly protected personnel should remain in the spill area; dike and contain spill. Stop or reduce discharge if it can be done safely.

6.2 **Environmental precautions**
Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains or unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers. No special environmental precautions required.

6.3 **Methods and material for containment and cleaning up**
Put on appropriate protective gear including NIOSH/MSHA approved self-contained breathing apparatus, rubber boots and heavy rubber gloves. 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. Follow applicable OSHA regulations (29 CFR 1910.120) for disposal.

6.4 **Reference to other sections**
See Section 3 for list of Hazardous Ingredients; Sections 8 for Exposure Controls; and Section 13 for Disposal.
Section 7 - Handling and Storage

7.1 Precautions for safe handling
Use good general housekeeping procedures. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. Use good personal hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities
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 local 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.

7.3 Specific end use(s): These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precautions.

Section 8 - Exposure Controls / Personal Protection

8.1 Control parameters
None defined

8.2 Exposure controls

Respiratory Protection
Respiratory protection is not normally required when using this product with adequate local exhaust ventilation. Where risk assessment shows air-purifying respirators are appropriate, 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 appropriate filter cartridges as a backup to engineering controls.

Hand Protection
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

9.1 Information on basic physical and chemical properties:

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Black viscous liquid</th>
<th>Vapor pressure:</th>
<th>No data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Mild to sweet odor</td>
<td>Vapor density (Air=1):</td>
<td>&gt;1</td>
</tr>
<tr>
<td>Property</td>
<td>Value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>No data</td>
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<tr>
<td>Relative density</td>
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<td></td>
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<tr>
<td>Melting / freezing point</td>
<td>No data</td>
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<td></td>
</tr>
<tr>
<td>Partition coefficient (n-octanol/water)</td>
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<td></td>
</tr>
<tr>
<td>Low / high boiling point</td>
<td>No data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>300°F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data</td>
<td></td>
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</tr>
<tr>
<td>Viscosity</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specific Gravity (H2O=1, at 4 °C)</td>
<td>1.07</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Section 10 - Stability and Reactivity**

10.1 Reactivity
No hazardous reactions if stored and handled as prescribed/indicated., No corrosive effect on metal. Not fire propagating. Reacts with water with formation of carbon dioxide. Risk of bursting.

10.2 Chemical stability: These products are stable at room temperature in closed containers under normal storage and handling conditions.

10.3 Possibility of hazardous reactions
Hazardous polymerization cannot occur.

10.4 Conditions to avoid
Reacts with water with formation of carbon dioxide. Risk of bursting.

10.5 Incompatible materials
Water (and moisture) strong bases and acids.

10.6 Hazardous decomposition products
Thermal oxidative decomposition can produce carbon oxides, gasses/vapors, and traces of incompletely burned carbon compounds.

**Section 11- Toxicological Information**

11.1 Information on toxicological effects

**Acute Toxicity**
No data

**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 these products present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC, ACGIH or NTP.

**Reproductive Toxicity**
No data

**Specific Target Organ Toxicity – Single Exposure**
No data

**Specific Target Organ Toxicity – Repeated Exposure**
No data

**Aspiration Hazard**
No data

**Potential Health Effects – Miscellaneous**
No data

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### Section 12 - Ecological Information

12.1 **Toxicity**
No data

12.2 **Persistence and Degradability**
No data

12.3 **Bioaccumulative Potential**
No data

12.4 **Mobility in Soil**
No data

12.5 **Results of PBT and vPvB assessment**
No data

12.6 **Other Adverse Effects**
No data

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### Section 13 - Disposal Considerations

13.1 **Waste treatment methods**: 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.

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### Section 14 - Transport Information

14.1 **UN number**
None

Not regulated by DOT, IATA or IMDG
14.2 UN proper shipping name
None

14.3 Transport hazard class(s)
Not applicable

14.4 Packing group
Not applicable

14.5 Environmental hazards
None known

14.6 Special precautions for user
None known

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not Applicable

Section 15 - Regulatory Information

15.1 Safety health and environmental regulations/legislation specific for the substance or mixture

This product complies with REACH or is not subject to regulation under REACH. The product does not contain an ingredient listed on either the Candidate List or Authorization List for Substances of Very High Concern (SVHC).

In the United States (EPA Regulations)
TSCA Inventory Status (40 CFR710)
All components of this formulation are listed in the TSCA Inventory.

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 313.

SARA 311/312 Hazards
None

California Proposition 65
This product does not intentionally contain any chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

15.2 Chemical safety assessment
No chemical safety assessment has been carried out for this substance/mixture by the supplier.
16 - Other Information

**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.