



Material Safety Data Sheet

SO-Flex

MSDS No. 625

Date of Preparation: November 2, 2010

Revision: 0011

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: SO-Flex

General Use: Polyurethane Plasticizer

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: Classified according to Articles 6 & 7of Directive 1999/45/EC

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: Harmful by inhalation.

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

R40: Limited evidence of a carcinogenic effect.

R48/20: Harmful; danger of serious damage to health by prolonged exposure through inhalation.

R50/53: Very toxic 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.

Section 3 - Composition / Information on Ingredients

Component	ACGIH TWA	OSHA PEL	Hazard Designation	Weight Percent (%)
Butyl benzyl phthalate CAS Number: 85-68-7 EINECS Number: 201-622-7	None Established	None Established	+T N	99.7
Phenylmercuric neodecanoate CAS Number: 26545-49-3 EINECS Number: 247-783-7	None Established	None Established	Xn	0.3

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: >300 °F (150°C)

Flash Point Method: COC

LEL: Not Established **UEL:** Not Established

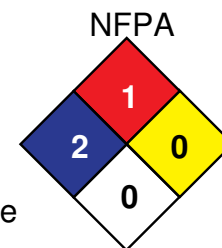
Flammability Classification: Non-Flammable

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 facepiece 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 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	Water Solubility: Negligible:
Appearance : Clear oily liquid	Boiling Point: 370 °C
Odor : mild odor	% Volatile: Nil
Vapor Pressure (mm of Hg): 8.6×10^{-6} @ 20 °C	Freezing/Melting Point: None Determined
Vapor Density (Air=1): 10.8	Viscosity: 1 poise
Specific Gravity (H₂O=1, at 4 °C): 1.12	Evaporation Rate: None Determined

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: carbon monoxide and carbon dioxide.

Section 11- Toxicological Information

Butyl Benzyl Phthalate	Rat: 20,400 mg/kg	Rat: >6.7 g/l for 4 hours.
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Section 12 - Ecological Information

Butyl Benzyl Phthalate: Biodegradable according to OECD.
Ecotoxicity in water: 1.1-1.7 mg/l (Fish)

Section 13 - Disposal Considerations

Disposal: Must be disposed of in accordance with local regulations.

Section 14 - Transport Information

DOT	IATA	IMDG
55 Gallon Quantities or Greater Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Butyl Benzyl Phthalate Mixture UN #: 3082 Hazard Class: 9 Label: Miscellaneous	All Quantities Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Butyl Benzyl Phthalate Mixture UN #: 3082 Hazard Class: 9 Label: Miscellaneous	All Quantities Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Butyl Benzyl Phthalate Mixture UN #: 3082 Hazard Class: 9 Label: Marine Pollutant

Section 15 - Regulatory Information

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

California Proposition 65: This product contains Butyl Benzyl Phthalate and a mercury compound, which have 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

Risk Phrases	Symbol(s) Required for EU Label	Safety Phrases
<p>R20: Harmful by inhalation.</p> <p>R36/37/38: Irritating to eyes, respiratory system and skin.</p> <p>R40: Limited evidence of a carcinogenic effect.</p> <p>R48/20: Harmful; danger of serious damage to health by prolonged exposure through inhalation</p> <p>R50/53: Very toxic to aquatic organisms may cause long term adverse effects in the aquatic environment.</p> <p>R61: May cause harm to the unborn child.</p> <p>R62: Possible risk of impaired fertility.</p>	 +T: Toxic  Xn: Harmful  N: Dangerous for the environment	<p>S1/2: Keep locked up and out of reach of children.</p> <p>S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.</p> <p>S28: After contact with skin, wash immediately with plenty of soap-suds.</p> <p>S36/37/39: Wear suitable protective clothing, gloves and eye and face protection.</p> <p>S45: In case of accident or if you feel ill, seek medical advice immediately.</p> <p>S53: Avoid exposure.</p> <p>S60: This material and container must be disposed as hazardous waste.</p> <p>S61: Avoid release to the environment. (See MSDS).</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.