



Safety Data Sheet

SDS No. 493A

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Part A for: EZ Spray® FlexFoam**General Use:** Polyurethane Elastomer**Manufacturer:** Smooth-On, Inc.,

5600 Lower Macungie Rd., Macungie, PA 18062

Phone (610) 252-5800, FAX (610) 252-6200

Emergency Contact: Chem-Tel

Domestic: 800-255-3924

International: 813-248-0585

Section 2 - Hazards Identification

Classification of the substance or mixture

Acute toxicity, inhalation – Category 4

Eye Damage/Irritation – Category 2B

Skin Corrosion/Irritation – Category 1B

Respiratory Sensitization – Category 1

Carcinogenicity – Category 2

Specific target organ toxicity-single exposure – Category 3 (respiratory)

Specific target organ toxicity-repeat exposure – Category 2 (respiratory)

**Pictograms:****Signal Word:** Danger

GHS Label elements, including precautionary statements

Health	H315	Causes skin irritation
Hazards:	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 (inhalation).
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.

Response Precautions:	P280	Wear protective gloves/protective clothing/eye protection/face protection.
	P284	[In case of inadequate ventilation] wear respiratory protection.
	P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
	P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Storage Precautions:	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.
Disposal Precautions:	P332 + P313	If skin irritation occurs: Get medical advice/attention.
	P362 + P364	Take off contaminated clothing and wash it before reuse.
	P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
	P405	Store locked up.
	P501	Dispose of contents/container according to local, state and federal laws.

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

Section 3 - Composition / Information on Ingredients

The following ingredients are hazardous according to OSHA criteria.

CAS	Chemical Name	Concentration
101-68-8	4,4' Methylene bis(phenylisocyanate) (MDI)	20% - 30%
9013-87-9	Polymethylene polyphenyl isocyanates	30% - 40%
28553-12-0	Diisononyl phthalate	35% - 45%

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.

Ingestion: Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5 - Fire-Fighting Measures

Flammable Classification: Non-Flammable

Extinguishing Media: Water Spray, Dry Chemical, and Carbon Dioxide, Foam

Unusual Fire or Explosion Hazards: None known.

Fire-Fighting Instructions: 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.

Further information: 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: Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment. 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.

Environmental precautions: Do not discharge into drains/surface waters/groundwater.

Section 7 - Handling and Storage

Handling Precautions: Provide suitable ventilation. Avoid aerosol formation. When handling heated product, vapors of the product should be ventilated, and respiratory protection used. Use good general housekeeping procedures. Wash hands after use.

Storage Requirements: 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 OSHA 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.

Section 8 - Exposure Controls / Personal Protection

Components with occupational exposure limits

4,4' Methylene bis(phenylisocyanate) (MDI)	OSHA PEL	CLV 0.02 ppm 0.2 mg/m3
	ACGIH TLV	TWA value 0.005 ppm
Polymethylene polyphenyl isocyanates	OSHA PEL	CLV 0.02 ppm 0.2 mg/m3
	ACGIH TLV	TWA value 0.005 ppm

Respiratory Protection: Local exhaust ventilation is required when using this product. Should a respirator be needed, 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 organic vapor cartridges.

Hand Protection: Chemical resistant protective gloves should be worn to prevent all skin contact. Suitable materials may include chloroprene rubber, nitrile rubber, chlorinated polyethylene, polyvinylchloride, butyl rubber, depending upon conditions of use.

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 may be 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

Appearance : yellow liquid
Odor/Threshold: Musty odor
pH: N.A. (non-aqueous)
Melting Point/Freezing Point: 37 °F
Low/High Boiling Point: > 390 °F
Flash Point: >300 °F
Evaporation Rate: Not available
Flammability: f.p. at or above 200 °F
UEL/LEL: Not available

Vapor Pressure: 0.00016 mmHg (68 °F)
Vapor Density (Air=1): 8.6
Specific Gravity (H₂O=1, at 4 °C): 1.09
Water Solubility: Insoluble
Partition coefficient: Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: 560 centipoise
% Volatile: Nil

Section 10 - Stability and Reactivity

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

Polymerization: Polymerization may occur. Reacts with water with formation of carbon dioxide. Risk of bursting.

Chemical Incompatibilities: Water (and moisture), amines, strong acids and bases, alcohols.

Hazardous Decomposition Products: Thermal oxidative decomposition can produce carbon oxides, nitrogen oxide, hydrogen cyanide, aromatic isocyanates, gases/vapors and traces of incompletely burned carbon compounds.

Section 11- Toxicological Information

Information extrapolated based on individual component data.

Assessment of irritating effects: irritating to eyes, respiratory system and skin. Skin contact may result in dermatitis, either irritative or allergic.

Skin Corrosion/Irritation: Draize test (rabbit): irritating (based on MDI)

Serious Eye Damage/Irritation: Draize test (rabbit): irritating (based on MDI)

Respiratory/Skin Sensitization:

Buehler test (guinea pig): sensitizing

Mouse Local Lymph Node Assay (LLNA): sensitizing, can cause skin sensitization.

Studies in animals suggest that dermal exposure may lead to pulmonary sensitization.

However, the relevance of this result for humans is unclear.

Germ Cell Mutagenicity: no data

Carcinogenicity: A carcinogenic potential cannot be excluded after prolonged exposure to severely irritating concentrations. These effects are not relevant to humans at occupational levels of exposure. OECD Guideline 453 rat inhalation 0, 0.2, 1, 6 mg/m³ result: lung tumors.

Reproductive Toxicity: Repeated inhalation uptake of the substance did not cause damage to the reproductive organs. Assessment of teratogenicity showed that the substance did not cause malformations in animal studies, however toxicity to development was observed at high doses that were toxic to the parental animals.

Development:

OECD Guideline 414 rat inhalation 0, 1, 4, 12 mg/m³

NOAEL Mat: 4 mg/m³

NOAEL Teratogenic: 4 mg/m³

Specific Target Organ Toxicity – Single Exposure: causes temporary irritation of the respiratory tract

Specific Target Organ Toxicity – Repeated Exposure: no data

Aspiration Hazard: no data

Acute Toxicity: calculated based on MDI

LD50 oral (rat): > 6,250 mg/kg
LC50 inhalation (rat): >6.25 mg/l (OECD Guideline 403)
LD50 dermal (rabbit): > 29,400 mg/kg

Chronic Exposure: NOAEL: 0.6 mg/m3; LOAEL: 3.1 mg/m3 (based on MDI)

Potential Health Effects – Miscellaneous: no data

Section 12 - Ecological Information

Toxicity:

LC0 (96 h): > 1,000 mg/l, *Brachydanio rerio* (OECD Guideline 203, static)
EC50 (24 h): > 1,000 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)
EC0 (72 h): 1,640 mg/l (growth rate), *Scenedesmus subspicatus*, (OECD Guideline 201, static)

Persistence and Degradability: Poorly biodegradable (0% BOD OECD Guideline 302 C). This product is unstable in water. The elimination data also refer to products of hydrolysis.

Bioaccumulative Potential: Significant accumulation in organisms is not to be expected. Bioconcentration factor 200 (28 d) *Cyprinus carpio* (OECD Guideline 305 E)

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

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

Section 13 - Disposal Considerations

Disposal: 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.

Section 14 - Transport Information

DOT
Not Regulated

IATA
Not Regulated

IMDG
Not Regulated

Section 15 - Regulatory Information

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

EPCRA 311/312 (Hazard Categories): Acute, Chronic

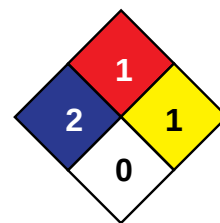
EPCRA 313:

CAS	Chemical Name	Concentration
101-68-8	4,4' Methylene bis(phenylisocyanate) (MDI)	20% - 30%
9013-87-9	Polymethylene polyphenyl isocyanates	30% - 40%

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

16 - Other Information

HMIS	
H	2
F	1
R	1



NFPA

Revision: 4

Date Prepared: May 27, 2015

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; CLV-Ceiling Limit Value; 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.

This SDS is prepared to comply with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) as prescribed by the United States (US) Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Canadian Workplace Hazardous Materials Information System (WHMIS), and European Union Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 (REACH).

Classifications of the chemical in accordance with 29 CFR 1910.1200, signal word, hazard and precautionary statement(s), symbol(s) and other information are based on listed concentration of each hazardous ingredient. Unlisted ingredients are not "hazardous" per the OSHA Hazard Communication Standard (29 CFR 1910.1200), WHMIS and EC No 1907/2006 and are considered trade secrets under US Federal Law (29 CFR and 40 CFR), Canadian Law (Health Canada Legislation), and European Union Directives.



Safety Data Sheet

SDS No. 493B

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Part B for: EZ Spray® FlexFoam**General Use:** Polyurethane Elastomer**Manufacturer:** Smooth-On, Inc.,

5600 Lower Macungie Rd., Macungie, PA 18062

Phone (610) 252-5800, FAX (610) 252-6200

Emergency Contact: Chem-Tel

Domestic: 800-255-3924 International: 813-248-0585

Section 2 - Hazards Identification

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 Council Directive 1999/45/EC and its subsequent amendments.

GHS Label elements, including precautionary statements

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.

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

Section 3 - Composition / Information on Ingredients

No ingredients are hazardous according to OSHA criteria.

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.**Ingestion:** Do not induce vomiting unless instructed by a physician. Never give anything by mouth to an unconscious person.**After first aid, get appropriate in-plant, paramedic, or community medical support.**

Section 5 - Fire-Fighting Measures

Flammable Classification: Non-Flammable**Extinguishing Media:** Water Fog, Dry Chemical, and Carbon Dioxide Foam**Unusual Fire or Explosion Hazards:** None known.**Fire-Fighting Instructions:** 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.**Further information:** 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.

Environmental precautions: No special environmental precautions required.

Section 7 - Handling and Storage

Handling Precautions: Use good general housekeeping procedures. Wash hands after use.

Storage Requirements: 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 OSHA 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.

Section 8 - Exposure Controls / Personal Protection

Respiratory Protection: Respiratory protection is not normally required when using this product with adequate ventilation. Should a respirator be needed, 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 organic vapor cartridges.

Hand Protection: Should hand protection be needed, 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

Appearance : off-white liquid
Odor/Threshold: sharp pungent odor
pH: N.A. (non-aqueous)
Melting Point/Freezing Point: N.A.
Low/High Boiling Point: N.A.
Flash Point: >300 °F
Evaporation Rate: Not available
Flammability: f.p. at or above 200 °F
UEL/LEL: Not available

Vapor Pressure: None (Polymeric Resin)
Vapor Density (Air=1): >1
Specific Gravity (H₂O=1, at 4 °C): 1.03
Water Solubility: Insoluble
Partition coefficient: Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: 2000 centipoise
% Volatile: Nil

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 cannot occur.

Chemical Incompatibilities: Strong bases, and acids.

Hazardous Decomposition Products: Thermal oxidative decomposition can produce carbon oxides and traces of incompletely burned carbon compounds.

Section 11- Toxicological Information

Skin Corrosion/Irritation: no data

Serious Eye Damage/Irritation: no data

Respiratory/Skin Sensitization: no data

Germ Cell Mutagenicity: no data

Carcinogenicity: no data

Reproductive Toxicity: no data

Specific Target Organ Toxicity – Single Exposure: no data

Specific Target Organ Toxicity – Repeated Exposure: no data

Aspiration Hazard: no data

Acute Toxicity: no data

Chronic Exposure: no data

Potential Health Effects – Miscellaneous: no data

Section 12 - Ecological Information

Toxicity: no data

Persistence and Degradability: no data

Bioaccumulative Potential: no data

Mobility in Soil: no data

Other Adverse Effects: no data

Section 13 - Disposal Considerations

Disposal: 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.

Section 14 - Transport Information

DOT

Not Regulated

IATA

Not Regulated

IMDG

Not Regulated

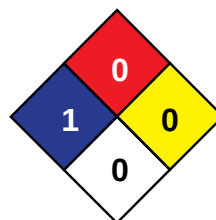
Section 15 - Regulatory Information

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

California Proposition 65: This product 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

HMIS	
H	1
F	0
R	0



NFPA

Revision: 4

Date Prepared: May 27, 2015

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