



SAFETY DATA SHEET

SDS No. 402AEU

Revision Date: November 29, 2022 Version: 1.0

According to Regulation (EC)

No. 1907/2006 as amended

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

1.1 Product Identifier

Trade Name: Part A: EZ-Spray® Plastic, StyroCoat, Feather Lite™, Flex Foam-iT! Series, Plasti-Paste Series Part-A (Except Plasti-Paste Epoxy), Shell Shock™, SIMPACT Series, Smooth-Cast™ Series, Task™ Series (Except Task 12) Foam-It!™ Series Part A KX Flex and Ure-Bond™ 90

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, USA
Telephone: Phone (610) 252-5800

E-mail address of person responsible for the SDS: 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:

Classification (REGULATION (EC) No 1272/2008) as amended

- H315 Skin Corrosion/Irritation – Category 2
- H317 Skin sensitization – Category 1
- H319 Serious eye damage/eye irritation – Category 2
- H332 Acute toxicity, inhalation – Category 4
- H334 Respiratory Sensitization – Category 1
- H335 Specific target organ toxicity-single exposure – Category 3 (respiratory)
- H373 Specific target organ toxicity-repeat exposure – Category 2 (respiratory)

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

2.2 Label elements, including precautionary statements

Labelling (REGULATION (EC) No 1272/2008) as amended



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.
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/vapours/spray.
P264	Wash skin with soap and water 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, long sleeves, and face shield or safety glasses
P284	[In case of inadequate ventilation] wear respiratory protection.

Response Precautions

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.
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.
P333 + P311	If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician.
P337 + P311	If eye irritation persists: Call a POISON CENTER or doctor/physician.
P362 + P364	Take off contaminated clothing and wash it before reuse.

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.
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Supplemental Hazard Statements:

UFI: KRT2-10YM-D00M-R59N

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 3 - Composition / Information on Ingredients**3.1 Substances/Mixtures****Hazardous ingredients according to Regulation (EC) No 1272/2008**

Chemical name	Classification	CAS-No.	Concentration (%wt)
4,4' Methylene bis(phenylisocyanate) (MDI)	Skin Irrit. 2 Skin Sens. 1B Eye Irrit. 2 Acute Tox. 4 Resp. Sens. 1 STOT SE 3 Carc. 2 STOT RE 2	101-68-8 EC: 202-966-0	35 – 40
Benzene, 1,1'-methylenebis[4-isocyanato-], homopolymer	Eye Irrit. 2: STOT RE 2: Acute Tox. 4: Skin Irrit. 2: Resp. Sens. 1: Skin Sens. 1; Carc. 2: STOT SE 3	25686-28-6 EC:500-040-3	10 - 13
Methylenediphenyl diisocyanate	Skin Irrit. 2 Skin Sens. 1 Eye Irrit. 2 Acute Tox. 2 Resp. Sens. 1 STOT SE 3 Carc. 2 STOT RE 2	26447-40-5 EC: 247-714-0	>1

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 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.

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:**

Component	CAS-No.	Value	Control Parameters	Basis
4,4' Methylene bis(phenylisocyanate) (MDI)	101-68-8	TWA	0.005 ppm	ACGIH
		C	0.2 mg/m ³ 0.02 ppm	OSHA Z-1
		TWA	0.05 mg/m ³ 0.005 ppm	NIOSH REL

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

None defined.

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

None defined.

8.2 Exposure controls:**Engineering measures**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment**Eye protection**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Skin and body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Protective measures

Ensure that eye flushing systems and safety showers are located close to the working place.

Section 9 - Physical and Chemical Properties**9.1 Information on basic physical and chemical properties:**

Appearance:	Amber liquid	Vapor pressure:	< 0.00016 mmHg (68 °F)
Color Intensity:	Light	Vapor density (Air=1):	> 1
Odor:	Musty odor	Evaporation rate:	No data
pH:	Not Relevant (Insoluble in Water)	Solubility in water:	Insoluble
Flash Point:	>300 °F	Specific Gravity (H2O=1, at 4 °C):	No data
Melting / freezing point:	37°F	Relative density:	No data
Low / high boiling point:	>300 °F	Decomposition temperature:	No data
Upper flammability limits:	No data	Viscosity:	30 – 100 cPs

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.

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

None known

10.5 Incompatible materials

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: Harmful if inhaled.

MDI CAS: 101-68-8

LD50 oral (rat): > 6,250 mg/kg

LC50 inhalation (rat): >6.25 mg/l (OECD Guideline 403)

LD50 dermal (rabbit): > 29,400 mg/kg

Benzene, 1,1'-methylenebis[4-isocyanato-], homopolymer CAS: 25686-28-6

LD50 > 5.000 mg/kg oral rat OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)

Methylenediphenyl diisocyanate CAS: 26447-40-5

Oral LD50: Rat > 7,400 mg/kg

Dermal LD50: Rabbit > 6,200 mg/kg

GHS LC50 (vapour): rat 11.0 mg/l /4 h GHS LC50 (dust and mist): rat 1.5 mg/l /4 h

Skin Corrosion/Irritation

Causes skin irritation.

Serious Eye Damage/Irritation

Causes serious eye irritation

Respiratory/Skin Sensitization

May cause an allergic skin reaction.

Germ Cell Mutagenicity

Based on available data the classification criteria are not met.

Carcinogenicity

Suspected of causing cancer.

Reproductive Toxicity

Based on available data the classification criteria are not met.

Specific Target Organ Toxicity – Single Exposure

May cause respiratory irritation.

Specific Target Organ Toxicity – Repeated Exposure

May cause damage to organs (olfactory organs through prolonged or repeated exposure (inhalation)).

Aspiration Hazard

Based on available data the classification criteria are not met.

Potential Health Effects – Miscellaneous

No data available

Section 12 - Ecological Information
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12.1 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)

12.2 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.

12.3 Bioaccumulative Potential

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

12.4 Mobility in Soil

Adsorption to solid soil phase is not expected.

12.5 Results of PBT and vPvB assessment

No data available

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

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

Section 14 - Transport Information

14.1 **UN number:** none

14.2 **UN proper shipping name:** none

14.3 **Transport hazard class(es):** 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 safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006 and EC No. 2020/878.

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : Not applicable

REACH Annex XIV: REACH Authorization List : Not applicable

REACH Annex XVII: REACH Restricted Substance List:
4,4' Methylene bis(phenylisocyanate) (MDI) Listed under Annex XVII of REACH. Entry 74

Methylenediphenyl diisocyanate Listed under Annex XVII of REACH. Entry 756

Regulation (EC) No 2019/1021 on substances that deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Seveso III: Directive

: Not applicable

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this substance/mixture by the supplier.

16 - Other Information

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Full text of H-Statements referred to under Sections 2 and 3.**Abbreviations and acronyms**

ATE - Acute Toxicity Estimate; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006; EINECS - European Inventory of Existing Commercial Chemical Substances
ELINCS - European List of Notified Chemical Substances; CAS# - Chemical Abstract Service number;
PPE - Personal Protection Equipment; Kow - octanol-water partition coefficient; DNEL - Derived No Effect Level; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); NOEC - No Observed Effect Concentration; PNEC - Predicted No Effect Concentration; RMM - Risk Management Measure; OEL - Occupational Exposure Limit; PBT - Persistent, Bioaccumulative and Toxic; vPvB - Very Persistent and Very Bioaccumulative; STOT - Specific Target Organ Toxicity; CSA - Chemical Safety Assessment; EN - European Standard; UN - United Nations; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; WGK - Water Hazard Class

Disclaimer

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