



SAFETY DATA SHEET

Revision date 18-Apr-2024

Revision Number 4.01

Section 1: Identification: Product identifier and chemical identity

Product identifier

Product Name Part A:
FlexFoam-It! Series
Foam-It! 3, 4, 5, 15
EZ-Spray Plastic
Styrocoat
Feather Lite
Plasti-Paste Series (Except Plasti-Paste Epoxy)
Shell Shock Series
Smooth-Cast Series
Task Series (Except Task 12)
KX Flex 90
Simpect Series (Except Simpect 60 and 80)

Product Code(s) FG-446A

Other means of identification

Safety data sheet number FG-446A

Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended use Polyurethane Elastomer.

Uses advised against

Details of manufacturer or importer

Manufacturer

Smooth-On, Inc., 5600 Lower Macungie Rd, Macungie, PA 18062, USA, Phone: +01.610.252.5800, www.smooth-on.com, sds@smooth-on.com

For further information, please contact

Contact Point Product Safety Department

E-mail address sds@smooth-on.com

Emergency telephone number

Emergency telephone number CHEMTEL +01-813-248-0585
Australia Poisons Information Centre: 13 11 26

Section 2: Hazard(s) identification

GHS Classification

| | |
|--------------------------------------------------|------------|
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 2 |

| | |
|-----------------------------------------------------------|------------|
| Respiratory sensitization | Category 1 |
| Skin sensitization | Category 1 |
| Carcinogenicity | Category 2 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Specific target organ toxicity (repeated exposure) | Category 2 |

Label elements

Exclamation mark
Health hazard



Signal word

DANGER

Hazard statements

- Harmful if inhaled.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- May cause an allergic skin reaction.
- Suspected of causing cancer.
- May cause respiratory irritation.
- May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements - Prevention

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use only outdoors or in a well-ventilated area.
- Wash face, hands and any exposed skin thoroughly after handling.
- In case of inadequate ventilation wear respiratory protection.
- Contaminated work clothing should not be allowed out of the workplace.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wear protective gloves.

Precautionary Statements - Response

- IF exposed or concerned: Get medical advice/attention.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF eye irritation persists: Get medical advice/attention.
- IF ON SKIN: Wash with plenty of water and soap.
- Take off contaminated clothing and wash it before reuse.
- IF skin irritation or rash occurs: Get medical advice/attention.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- Call a POISON CENTER or doctor if you feel unwell.
- If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

Precautionary Statements - Storage

- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.

Precautionary Statements - Disposal

- Dispose of contents/container to an approved waste disposal plant.

Other hazards which do not result in classification

No information available.

Section 3: Composition/information on ingredients

| Chemical name | CAS No. | Weight-% |
|---------------|---------|----------|
|---------------|---------|----------|

| | | |
|------------------------------------|-------------|---------|
| 4,4-Methylenediphenyl diisocyanate | 101-68-8 | 15 - 35 |
| Methylenediphenyl diisocyanate | 26447-40-5 | < 1.5 |
| Non-hazardous ingredients | Proprietary | Balance |

Section 4: First aid measures

Description of first aid measures

| | |
|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice | Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention. |
| Inhalation | May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. |
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists. |
| Skin contact | May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes. |
| Ingestion | May produce an allergic reaction. Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention. |
| Self-protection of the first aider | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information. Avoid breathing vapors or mists. |

Most important symptoms and effects, both acute and delayed

| | |
|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms | May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation. Difficulty in breathing. |
| Effects of Exposure | May cause damage to organs through prolonged or repeated exposure. |
| <u>Indication of any immediate medical attention and special treatment needed</u> | |
| Note to physicians | May cause sensitization in susceptible persons. Treat symptomatically. |

Section 5: Firefighting measures

Suitable Extinguishing Media

| | |
|---------------------------------------|---------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Large Fire | CAUTION: Use of water spray when fighting fire may be inefficient. |
| Unsuitable extinguishing media | Do not scatter spilled material with high pressure water streams. |

Specific hazards arising from the chemical

| | |
|------------------------------------------|---------------------------------------------------------------------------------------|
| Specific hazards arising from the | Product is or contains a sensitizer. May cause sensitization by inhalation. May cause |
|------------------------------------------|---------------------------------------------------------------------------------------|

chemical sensitization by skin contact.

Special protective actions for fire-fighters

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.

Other information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Precautions to prevent secondary hazards

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: Handling and storage, including how the chemical may be safely used

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid breathing vapors or mists.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

Incompatible materials Strong acids. Strong bases. Strong oxidizing agents.

Section 8: Exposure controls and personal protection

Control parameters

Exposure Limits

| Chemical name | Australia | New Zealand | ACGIH TLV |
|---------------|-----------|-------------|-----------|
|---------------|-----------|-------------|-----------|

| | | | |
|------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|----------------|
| 4,4-Methylenediphenyl diisocyanate 101-68-8 | TWA: 0.02 mg/m ³ STEL: 0.07 mg/m ³ | TWA: 0.02 mg/m ³ STEL: 0.07 mg/m ³ | TWA: 0.005 ppm |
| Methylenediphenyl diisocyanate 26447-40-5 | TWA: 0.02 mg/m ³ STEL: 0.07 mg/m ³ | TWA: 0.02 mg/m ³ STEL: 0.07 mg/m ³ | - |

| Chemical name | European Union | United Kingdom | Germany DFG |
|------------------------------------------------|----------------|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 4,4-Methylenediphenyl diisocyanate 101-68-8 | - | TWA: 0.02 mg/m ³ STEL: 0.07 mg/m ³ Sen+ | TWA: 0.05 mg/m ³ Peak: 0.05 mg/m ³ Sk* respiratory and skin sensitizer inhalable fraction |
| Methylenediphenyl diisocyanate 26447-40-5 | - | TWA: 0.02 mg/m ³ STEL: 0.07 mg/m ³ Sen+ | - |

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear suitable protective clothing. Long sleeved clothing.

Hand protection Wear suitable gloves. Impervious gloves.

Respiratory protection Appropriate respiratory protection should be selected and used according to the chemical nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Environmental exposure controls No information available.

Thermal hazards No information available.

Section 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state Liquid
Appearance Amber Liquid
Color Amber
Odor Musty.
Odor threshold No information available

| Property | Values | Remarks • Method |
|-----------------------------------------|-------------------|------------------|
| pH | No data available | None known |
| Melting point / freezing point | < 2.7778 °C | None known |
| Initial boiling point and boiling range | No data available | None known |
| Flash point | > 148.8889 °C | None known |
| Evaporation rate | No data available | None known |
| Flammability | No data available | None known |
| Flammability Limit in Air | | None known |
| Upper flammability or explosive limits | No data available | |
| Lower flammability or explosive | No data available | |

| | | |
|---------------------------|--------------------|------------|
| limits | | |
| Vapor pressure | < 0.00016 mmHg | None known |
| Relative vapor density | >1 | None known |
| Relative density | No data available | None known |
| Water solubility | Insoluble in water | None known |
| Solubility(ies) | No data available | None known |
| Partition coefficient | No data available | None known |
| Autoignition temperature | No data available | None known |
| Decomposition temperature | No data available | None known |
| Kinematic viscosity | 30 – 100 cPs | None known |
| Dynamic viscosity | No data available | None known |

Other information

| | |
|--------------------------|--------------------------|
| VOC content | No information available |
| Particle characteristics | No information available |

Section 10: Stability and reactivity**Reactivity**

| | |
|------------|---------------------------|
| Reactivity | No information available. |
|------------|---------------------------|

Chemical stability

| | |
|-----------|---------------------------------|
| Stability | Stable under normal conditions. |
|-----------|---------------------------------|

Explosion data

| | |
|----------------------------------|-------|
| Sensitivity to mechanical impact | None. |
| Sensitivity to static discharge | None. |

Possibility of hazardous reactions

| | |
|------------------------------------|-------------------------------|
| Possibility of hazardous reactions | None under normal processing. |
|------------------------------------|-------------------------------|

Conditions to avoid

| | |
|---------------------|-----------------|
| Conditions to avoid | Excessive heat. |
|---------------------|-----------------|

Incompatible materials

| | |
|------------------------|------------------------------------------------------|
| Incompatible materials | Strong acids. Strong bases. Strong oxidizing agents. |
|------------------------|------------------------------------------------------|

Hazardous decomposition products

| | |
|----------------------------------|-------------------------------------------|
| Hazardous decomposition products | None known based on information supplied. |
|----------------------------------|-------------------------------------------|

Section 11: Toxicological information**Information on likely routes of exposure****Product Information**

| | |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation | Specific test data for the substance or mixture is not available. May cause sensitization in susceptible persons. (based on components). May cause irritation of respiratory tract. Harmful by inhalation. |
| Eye contact | Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain. |
| Skin contact | Specific test data for the substance or mixture is not available. Repeated or prolonged skin |

contact may cause allergic reactions with susceptible persons. (based on components).
May cause sensitization by skin contact. Causes skin irritation.

Ingestion

Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Acute toxicity Harmful by inhalation.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

| | |
|--------------------------------------|-----------------|
| ATEmix (oral) | 29,176.10 mg/kg |
| ATEmix (dermal) | 10,000.00 mg/kg |
| ATEmix (inhalation-dust/mist) | 1.50 mg/l |

Unknown acute toxicity

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|------------------------------------|-----------------------|--------------------------|-------------------------------------|
| 4,4-Methylenediphenyl diisocyanate | = 31600 mg/kg (Rat) | - | = 369 mg/m ³ (Rat) 4 h |
| Methylenediphenyl diisocyanate | > 10000 mg/kg (Rat) | > 10000 mg/kg (Rabbit) | = 490 mg/m ³ (Rat) 4 h |

See section 16 for terms and abbreviations

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation

Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Germ cell mutagenicity

No information available.

Carcinogenicity

Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name | Australia | European Union | IARC |
|-----------------------------------------------|-----------|----------------|---------|
| 4,4-Methylenediphenyl diisocyanate - 101-68-8 | Carc. 2 | Carc. 2 | Group 3 |
| Methylenediphenyl diisocyanate - 26447-40-5 | Carc. 2 | Carc. 2 | Group 3 |

Legend

IARC (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity

No information available.

STOT - single exposure May cause respiratory irritation.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard No information available.

Section 12: Ecological information

Ecotoxicity

Aquatic ecotoxicity The environmental impact of this product has not been fully investigated.

Terrestrial ecotoxicity

| Chemical name | Earthworm | Avian | Honeybees |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|
| 4,4-Methylenediphenyl diisocyanate | Acute Toxicity: LC50 > 1000 mg/kg (Eisenia foetida 14 Days soil dry weight) Source: IUCLID NOEC >= 1000 mg/kg (Eisenia foetida 14 Days soil dry weight) Source: IUCLID | - | - |
| Methylenediphenyl diisocyanate | Acute Toxicity: LC50 > 1000 mg/kg (Eisenia foetida 14 Days soil dry weight) Source: IUCLID NOEC >= 1000 mg/kg (Eisenia foetida 14 Days soil dry weight) Source: IUCLID | - | - |

Persistence and degradability

Persistence and degradability No information available.

Bioaccumulative potential

Bioaccumulation

Component Information

| Chemical name | Partition coefficient |
|------------------------------------|-----------------------|
| 4,4-Methylenediphenyl diisocyanate | 4.51 |
| Methylenediphenyl diisocyanate | 4.5 |

Mobility

Mobility No information available.

Other adverse effects

Other adverse effects No information available.

Section 13: Disposal considerations**Disposal methods**

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

See section 8 for more information

Section 14: Transport information

ADG Not regulated

IATA Not regulated

IMDG Not regulated

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

Section 15: Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Australia**

See section 8 for national exposure control parameters

Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

Classified as a scheduled poison according to the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP)

Poison Schedule Number 6

Australian Industrial Chemicals Introduction Scheme (AICIS)

| Chemical name | Australian Industrial Chemicals Introduction Scheme (AICIS) | Additional information |
|-----------------------------------------------|-------------------------------------------------------------|------------------------|
| 4,4-Methylenediphenyl diisocyanate - 101-68-8 | Present | - |
| Methylenediphenyl diisocyanate - 26447-40-5 | Present | - |

Illicit Drug Precursors/Reagents

This product does not contain any substance(s) on the Illicit Drug Precursors/Reagents list.

National pollutant inventory

Subject to reporting requirement

| Chemical name | National pollutant inventory |
|-----------------------------------------------|----------------------------------|
| 4,4-Methylenediphenyl diisocyanate - 101-68-8 | 10 tonne/yr Threshold category 1 |

International Inventories

| | |
|----------------------|---------------------------------------------------|
| AIIC | Contact supplier for inventory compliance status. |
| NZIoC | Contact supplier for inventory compliance status. |
| TSCA | Contact supplier for inventory compliance status. |
| DSL/NDSL | Contact supplier for inventory compliance status. |
| EINECS/ELINCS | Contact supplier for inventory compliance status. |
| ENCS | Contact supplier for inventory compliance status. |
| IECSC | Contact supplier for inventory compliance status. |
| KECI | Contact supplier for inventory compliance status. |
| PICCS | Contact supplier for inventory compliance status. |

Legend:

- AIIC** - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

International Regulations**The Montreal Protocol on Substances that Deplete the Ozone Layer** Not applicable**The Stockholm Convention on Persistent Organic Pollutants** Not applicable**The Rotterdam Convention** Not applicable**Section 16: Any other relevant information**

Revision date 18-Apr-2024

Revision Note

***Indicates updated data since last publication.

Key or legend to abbreviations and acronyms used in the safety data sheet**Legend**

SVHC: Substances of Very High Concern for Authorization:
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances
STOT: Specific Target Organ Toxicity
ATE: Acute Toxicity Estimate
LC50: 50% Lethal Concentration
LD50: 50% Lethal Dose

Legend Section 8: Exposure controls/personal protection

| | | | |
|---------|-----------------------------|------|----------------------------------|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | Sk* | Skin designation |
| C | Carcinogen | | |

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
Australian Industrial Chemicals Introduction Scheme (AICIS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet