SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 19-Mar-2026 **Revision Number** 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Safety data sheet number FG-1088A

Product Name Part A: FlexFoam iT! 7FR, 23FR

Other means of identification

Unique Formula Identifier (UFI) AR20-H0S6-P00S-7DGW

Pure substance/mixture Mixture

Contains Phosphoric trichloride reaction products with propylene oxide; Methylenediphenyl diisocyanate; 4,4-Methylenediphenyl diisocyanate; Benzene, 1,1-methylenebis[isocyanato-, homopolymer; Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Polyurethane Elastomer

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Supplier
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

E-mail address sds@smooth-on.com

1.4. Emergency telephone number

Emergency Telephone CHEMTEL +01-813-248-0585

Emergency Telephone - §45 - (EC)1272/2008	
Europe	**112**
Austria	01 406 43 43
Belgium	070 245 245
Bulgaria	+359 9154 233
Croatia	+385 1 2348 342
Cyprus	1401
Czech Republic	224 91 92 93 22191 54 02
Denmark	+45 8212 1212
Estonia	16662
Finland	Maksuton Puhelu: 0800 147 111 Normihinta: +358 9 471 977
France	+33 01 45 42 59 59

Germany	112
Greece	(0030) 2107793777
Hungary	+36 80 201 199
Iceland	+354 543 2222
Ireland	01 837 9964 01 809 2566
Italy	06 3054 343 10 Italian Poison Centres: Rome +39 06-68593726 / +30 06-49978000 / +39 06-3054343, Foggia +39 800183459, Naples +39 081-5453333, Florenze +39 055-7947819, Pavia +39 0382-24444, Milan +39 02-66101029, Bergamo +39 80088300, Verona +39 800011858
Latvia	+370 (5) 2362052
Liechtenstein	01 406 43 43
Lithuania	+370 5 236 20 52 +370 687 533 78
Luxembourg	(+352) 8002 5500
Netherlands	+31 (0) 88 755 8000
Norway	22 59 13 00
Poland	+48 22 619 66 54
Portugal	+351 800 250 250
Romania	+40 21 599 2300
Slovakia	+421 2 5477 4166
Spain	+34 91 562 04 20
Sweden	112
Switzerland	145
United Kingdom	0344 892 0111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Respiratory sensitization	Category 1 - (H334)
Skin sensitization	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Category 3 Respiratory irritation	
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Hazardous to the aquatic environment - chronic	Category 4 - (H413)

2.2. Label elements

Contains Phosphoric trichloride reaction products with propylene oxide; Methylenediphenyl diisocyanate; 4,4-Methylenediphenyl diisocyanate; Benzene, 1,1-methylenebis[isocyanato-, homopolymer; Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-

Signal word

Danger

Hazard statements
H302 - Harmful if swallowed.
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 through prolonged or repeated exposure.
H413 - May cause long lasting harmful effects to aquatic life.

Precautionary Statements - EU (§28, 1272/2008)
P260 - Do not breathe dust, fume, gas, mist, vapors and spray.
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P280 - Wear protective gloves, protective clothing, eye protection and face protection.
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P321 - Specific treatment (see supplemental first aid instructions on this label).
P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical advice/attention.

Additional information
This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

May be harmful in contact with skin.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Hazardous

Chemical name	Weight-%	REACH registration number	EC No. (Index No.)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
Phosphoric trichloride reaction products with propylene oxide 1244733-77-4	30-60	No data available	-	No data available	-	-	-	-
Methylenediphenyl diisocyanate 26447-40-5	15-40	01-2119457014-47-0043	247-714-0 (615-005-00-9)	Skin Irrit. 2 (H315) Skin Sens. 1 (H317)	Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1%	-	-	C,2

				Eye Irrit. 2 (H319) Acute Tox. 4 (H332) Resp. Sens. 1 (H334) STOT SE 3 (H335) Carc. 2 (H351) STOT RE 2 (H373)	Skin Irrit. 2 :: C>=5% STOT SE 3 :: C>=5%			
4,4-Methylenediphenyl diisocyanate 101-68-8	15-40	01-2119457014-47-0043	202-966-0 (615-005-00-9)	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Acute Tox. 4 (H332) Resp. Sens. 1 (H334) STOT SE 3 (H335) Carc. 2 (H351) STOT RE 2 (H373)	Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1% Skin Irrit. 2 :: C>=5% STOT SE 3 :: C>=5%	-	-	C,2
Benzene, 1,1-methylenebis[isocyanato-, homopolymer 39310-05-9	10-30	No data available	-	No data available	-	-	-	-
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	1-5	No data available	227-534-9 (615-005-00-9)	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Acute Tox. 4 (H332) Resp. Sens. 1 (H334) STOT SE 3 (H335) Carc. 2 (H351) STOT RE 2 (H373)	Eye Irrit. 2 :: C>=5% Resp. Sens. 1 :: C>=0.1% Skin Irrit. 2 :: C>=5% STOT SE 3 :: C>=5%	-	-	C,2

CLP Notes:

Note C - Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note 2 - The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture.

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its

components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Phosphoric trichloride reaction products with propylene oxide 1244733-77-4	No data available	2002	No data available	No data available	No data available
Methylenediphenyl diisocyanate 26447-40-5	10000	10010	No data available	No data available	No data available
4,4-Methylenediphenyl diisocyanate 101-68-8	31600	No data available	0.369	No data available	No data available
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	10000	10010	No data available	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59).

SECTION 4: First aid measures

4.1. 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 Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. May produce an allergic reaction. 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.

4.2. 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. Suspected of causing cancer.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians May cause sensitization in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. 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.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Product is or contains a sensitizer. May cause sensitization by inhalation. May cause sensitization by skin contact.

5.3. Advice for firefighters

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

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1- Recommendations for those who intervene directly
No information available.

6.1.2.- Recommendations for those who do not intervene directly
No information available.

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.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

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

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. 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.

7.2. Conditions for safe storage, including any incompatibilities

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

Storage class (TRGS 510) Storage class 10.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Methylenediphenyl diisocyanate 26447-40-5	TWA: 6 µg/m³; TWA: 10 µg/m³;	TWA-TMW: 0.005 ppm; TWA-TMW: 0.05 mg/m³; STEL-KZGW: 0.01 ppm (8 X 5 min); STEL-KZGW: 0.1 mg/m³ (8 X 5 min); DS RS	-	TWA: 0.05 mg/m³; STEL: 0.07 mg/m³;	TWA-GVI: 0.02 mg/m³; STEL-KGVI: 0.07 mg/m³;
4,4-Methylenediphenyl diisocyanate 101-68-8	TWA: 6 µg/m³; TWA: 10 µg/m³;	TWA-TMW: 0.005 ppm; TWA-TMW: 0.05 mg/m³; STEL-KZGW: 0.01 ppm (8 X 5 min); STEL-KZGW: 0.1 mg/m³ (8 X 5 min); DS	TWA: 0.005 ppm; TWA: 0.052 mg/m³;	TWA: 0.05 mg/m³; STEL: 0.07 mg/m³;	TWA-GVI: 0.02 mg/m³; STEL-KGVI: 0.07 mg/m³;

		RS			
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	TWA: 6 µg/m³; TWA: 10 µg/m³;	TWA-TMW: 0.005 ppm; TWA-TMW: 0.05 mg/m³; STEL-KZGW: 0.01 ppm (8 X 5 min); STEL-KZGW: 0.1 mg/m³ (8 X 5 min); DS RS	-	TWA: 0.05 mg/m³; STEL: 0.07 mg/m³;	TWA-GVI: 0.02 mg/m³; STEL-KGVI: 0.07 mg/m³;
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Methylenediphenyl diisocyanate 26447-40-5	-	-	-	TWA: 0.005 ppm; STEL: 0.01 ppm; S	STEL: 0.035 mg/m³;
4,4-Methylenediphenyl diisocyanate 101-68-8	-	TWA: 0.05 mg/m³; Ceiling: 0.1 mg/m³; S	TWA: 0.005 ppm; TWA: 0.05 mg/m³; STEL: 0.01 ppm; STEL: 0.1 mg/m³;	TWA: 0.005 ppm; TWA: 0.05 mg/m³; STEL: 0.01 ppm; STEL: 0.1 mg/m³; S	STEL: 0.035 mg/m³;
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	-	-	-	TWA: 0.005 ppm; STEL: 0.01 ppm; S	STEL: 0.035 mg/m³;
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Methylenediphenyl diisocyanate 26447-40-5	-	-	-	TWA: 0.02 ppm; TWA: 0.2 mg/m³; STEL: 0.02 ppm; STEL: 0.2 mg/m³;	-
4,4-Methylenediphenyl diisocyanate 101-68-8	TWA-VME: 0.01 ppm; TWA-VME: 0.1 mg/m³; STEL-VLCT: 0.02 ppm; STEL-VLCT: 0.2 mg/m³; RS	TWA-AGW; 0.05 mg/m³ (ceiling factor 2; exposure factor 1); Sk DS RS	TWA-MAK: 0.05 mg/m³; I(1);inhalable fraction Peak: 0.05 mg/m³; inhalable fraction Sk DS RS	TWA: 0.02 ppm; TWA: 0.2 mg/m³; STEL: 0.02 ppm; STEL: 0.2 mg/m³;	TWA-AK: 0.005 ppm; TWA-AK: 0.05 mg/m³; STEL-CK: 0.005 ppm; STEL-CK: 0.05 mg/m³; S
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	-	TWA-AGW; 0.05 mg/m³ (ceiling factor 2; exposure factor 1);	-	TWA: 0.02 ppm; TWA: 0.2 mg/m³; STEL: 0.02 ppm; STEL: 0.2 mg/m³;	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Methylenediphenyl diisocyanate 26447-40-5	TWA: 0.02 mg/m³; STEL: 0.07 mg/m³ (all, except Methyl isocyanate and 2,4-Toluene diisocyanate or 2,6-Toluene diisocyanate);	-	-	-	TWA-IPRD: 0.005 ppm; dust, aerosols TWA-IPRD: 0.05 mg/m³; dust, aerosols Ceiling (NRD): 0.01 ppm; dust, aerosols Ceiling (NRD): 0.1 mg/m³; dust, aerosols S
4,4-Methylenediphenyl diisocyanate 101-68-8	TWA: 0.005 ppm; STEL: 0.015 ppm (calculated);	-	TWA: 0.005 ppm; TWA: 0.051 mg/m³;	-	TWA-IPRD: 0.005 ppm; dust, aerosols TWA-IPRD: 0.05 mg/m³; dust, aerosols

					Ceiling (NRD): 0.01 ppm; dust, aerosols Ceiling (NRD): 0.1 mg/m³; dust, aerosols S
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	TWA: 0.02 mg/m³; STEL: 0.07 mg/m³ (all, except Methyl isocyanate and 2,4-Toluene diisocyanate or 2,6-Toluene diisocyanate);	-	-	-	TWA-IPRD: 0.005 ppm; dust, aerosols TWA-IPRD: 0.05 mg/m³; dust, aerosols Ceiling (NRD): 0.01 ppm; dust, aerosols Ceiling (NRD): 0.1 mg/m³; dust, aerosols S

Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Methylenediphenyl diisocyanate 26447-40-5	-	-	-	TWA: 0.005 ppm; STEL: 0.01 ppm (value from the regulation); As	TWA-NDS: 0.03 mg/m³; STEL-NDSCh: 0.09 mg/m³;
4,4-Methylenediphenyl diisocyanate 101-68-8	-	-	-	TWA: 0.005 ppm; TWA: 0.05 mg/m³; STEL: 0.01 ppm (value from the regulation); As	TWA-NDS: 0.03 mg/m³; STEL-NDSCh: 0.09 mg/m³;
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	-	-	-	TWA: 0.005 ppm; STEL: 0.01 ppm (value from the regulation); As	TWA-NDS: 0.03 mg/m³; STEL-NDSCh: 0.09 mg/m³;

Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
4,4-Methylenediphenyl diisocyanate 101-68-8	TWA (VLE-MP): 0.005 ppm;	STEL: 0.15 mg/m³;	TWA: 0.002 mg/m³; TWA: 0.03 mg/m³; S	TWA: 0.05 mg/m³; inhalable fraction TWA: 0.005 ppm; STEL: 0.05 mg/m³; inhalable fraction STEL: 0.005 ppm; pSk	TWA-(VLA-ED): 0.005 ppm; TWA-(VLA-ED): 0.052 mg/m³; S
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	-	-	-	TWA: 0.05 mg/m³; STEL: 0.05 mg/m³;	-

Chemical name	Sweden	Switzerland	United Kingdom
Methylenediphenyl diisocyanate 26447-40-5	TLV-NGV: 0.002 ppm; STEL (Bindande KGV): 0.005 ppm; S	TWA-MAK: 0.02 mg/m³; STEL-KZGW: 0.02 mg/m³; S	TWA: 0.02 mg/m³; STEL: 0.07 mg/m³; poS
4,4-Methylenediphenyl diisocyanate 101-68-8	TLV-NGV: 0.002 ppm; TLV-NGV: 0.03 mg/m³; STEL (Bindande KGV): 0.005 ppm; STEL (Bindande KGV): 0.05 mg/m³; S	TWA-MAK: 0.02 mg/m³; STEL-KZGW: 0.02 mg/m³; Sk S	TWA: 0.02 mg/m³; STEL: 0.07 mg/m³; poS
Benzene,	TLV-NGV: 0.002 ppm;	TWA-MAK: 0.02 mg/m³;	TWA: 0.02 mg/m³;

1-isocyanato-2-[(4-isocyanatophenyl) methyl]- 5873-54-1	STEL (Bindande KGV): 0.005 ppm; S	STEL-KZGW: 0.02 mg/m³; S	STEL: 0.07 mg/m³; poS

Biological occupational exposure limits

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Methylenediphenyl diisocyanate 26447-40-5	-	10 µg/g Creatinine - urine (4,4'-Diaminodiphenylmethane) - after end of work day, at the end of a work week/end of the shift	-	-	-
4,4-Methylenediphenyl diisocyanate 101-68-8	-	10 µg/g Creatinine - urine (4,4'-Diaminodiphenylmethane) - after end of work day, at the end of a work week/end of the shift	-	-	-
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	-	10 µg/g Creatinine - urine (4,4'-Diaminodiphenylmethane) - after end of work day, at the end of a work week/end of the shift	-	-	-

Chemical name	Denmark	Finland	France	Germany DFG	Germany TRGS
4,4-Methylenediphenyl diisocyanate 101-68-8	-	-	-	10 µg/L - BLW (end of exposure or end of shift) urine	-

Chemical name	Hungary	Ireland	Italy MDLPS	Italy AIDII
Methylenediphenyl diisocyanate 26447-40-5	-	1 µmol/mol Creatinine (urine - urinary Diamine post task)	-	-
4,4-Methylenediphenyl diisocyanate 101-68-8	0.01 mg/L (urine - MDA (after hydrolysis) end of shift) 0.05 µmol/L (urine - MDA (after hydrolysis) end of shift)	1 µmol/mol Creatinine (urine - urinary Diamine post task)	-	-
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	-	1 µmol/mol Creatinine (urine - urinary Diamine post task)	-	-

Chemical name	Slovenia	Spain	Switzerland	United Kingdom
Methylenediphenyl diisocyanate 26447-40-5	-	-	-	1 mmol isocyanate-derived diamine/mol creatinine - () - end of the period of exposure
4,4-Methylenediphenyl diisocyanate 101-68-8	-	-	10 µg/g creatinine (urine - 4,4'-Diaminodiphenylme	-

			thane end of shift) 5 nmol/mmol creatinine (urine - 4,4'-Diaminodiphenylmethane end of shift)	

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Phosphoric trichloride reaction products with propylene oxide 1244733-77-4	-	2.91 mg/kg bw/day [4] [6]	8.2 mg/m³ [4] [6] 22.6 mg/m³ [4] [7]
4,4-Methylenediphenyl diisocyanate 101-68-8	-	-	0.05 mg/m³ [5] [6] 0.1 mg/m³ [5] [7]
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl) methyl]- 5873-54-1	-	-	0.05 mg/m³ [5] [6] 0.1 mg/m³ [5] [7]

Notes

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Phosphoric trichloride reaction products with propylene oxide 1244733-77-4	0.52 mg/kg bw/day [4] [6] 2 mg/kg bw/day [4] [7]	-	1.45 mg/m³ [4] [6] 5.6 mg/m³ [4] [7]
4,4-Methylenediphenyl diisocyanate 101-68-8	-	-	0.025 mg/m³ [5] [6] 0.05 mg/m³ [5] [7]
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl) methyl]- 5873-54-1	-	-	0.025 mg/m³ [5] [6] 0.05 mg/m³ [5] [7]

Notes

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Phosphoric trichloride reaction products with propylene oxide 1244733-77-4	11.6 mg/kg food 0.32 mg/L	0.51 mg/L	11.6 mg/kg food 0.032 mg/L	-	-
4,4-Methylenediphenyl diisocyanate 101-68-8	3.7 µg/L	37 µg/L	0.37 µg/L	-	-

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	3.7 µg/L	37 µg/L	0.37 µg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Phosphoric trichloride reaction products with propylene oxide 1244733-77-4	11.5 mg/kg sediment dw	1.15 mg/kg sediment dw	19.1 mg/L	0.34 mg/kg soil dw	-
4,4-Methylenediphenyl diisocyanate 101-68-8	11.7 mg/kg sediment dw	1.17 mg/kg sediment dw	-	2.33 mg/kg soil dw	-
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- 5873-54-1	11.7 mg/kg sediment dw	1.17 mg/kg sediment dw	-	2.33 mg/kg soil dw	-

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

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

Hand protection Wear suitable gloves.

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

Respiratory protection Use appropriate respiratory protection. No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

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.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. 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
Melting point / freezing point	2.77 °C	None known
Initial boiling point and boiling range	> 148.8889 °C	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 limits	No data available	
Flash point	> 148.8889 °C	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	30 - 100 Centipoise	None known
Water solubility	Insoluble in water	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapor pressure	< 0.00016 mmHg	None known
Relative density	1.2	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapor density	>1	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

9.2.1. Information with regard to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data
Sensitivity to mechanical impact None.
Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid Excessive heat.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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 effects as listed under "Inhalation". Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

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 if swallowed. Harmful by inhalation.

Numerical measures of toxicity

The following ATE values have been calculated for the mixture

ATEmix (oral) 1,127.00 mg/kg
ATEmix (dermal) 3,179.20 mg/kg
ATEmix (inhalation-dust/mist) 1.50 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Phosphoric trichloride reaction products with propylene oxide	-	> 2000 mg/kg (Rat)	> 7 mg/L (Rat) 4 h
Methylenediphenyl diisocyanate	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	= 490 mg/m³ (Rat) 4 h
4,4-Methylenediphenyl diisocyanate	= 31600 mg/kg (Rat)	-	= 369 mg/m³ (Rat) 4 h
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl) methyl]-	> 10000 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	= 490 mg/m³ (Rat) 4 h

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	European Union
Methylenediphenyl diisocyanate	Carc. 2
4,4-Methylenediphenyl diisocyanate	Carc. 2
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-	Carc. 2

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.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity May cause long lasting harmful effects to aquatic life.

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Phosphoric trichloride reaction products with propylene oxide	2.68
Methylenediphenyl diisocyanate	4.5
4,4-Methylenediphenyl diisocyanate	4.51
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-	4.5

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
Phosphoric trichloride reaction products with propylene oxide	Not PBT/vPvB
4,4-Methylenediphenyl diisocyanate	Not PBT/vPvB
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-	Not PBT/vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment 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.

SECTION 14: Transport information

IATA

14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None

IMDG

14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated

14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None
14.7 Maritime transport in bulk according to IMO instruments No information available

RID
14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None

ADR
14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None

SECTION 15: Regulatory information

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

National regulations

France
Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
Methylenediphenyl diisocyanate - 26447-40-5	RG 62
4,4-Methylenediphenyl diisocyanate - 101-68-8	RG 62
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- - 5873-54-1	RG 62

Germany
Water hazard class (WGK) obviously hazardous to water (WGK 2)
TA Luft (German Air Pollution Control Regulation)

Chemical name	Number	Class
4,4-Methylenediphenyl diisocyanate	5.2.5	Class I
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]-	5.2.5	Class I

European Union
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Methylenediphenyl diisocyanate - 26447-40-5	56 75	-
4,4-Methylenediphenyl diisocyanate - 101-68-8	56[a] 75	-
Benzene, 1-isocyanato-2-[(4-isocyanatophenyl)methyl]- - 5873-54-1	56[b] 75	-

Persistent Organic Pollutants
Not applicable

Ozone-depleting substances (ODS) Regulation (EU) 2024/590
Not applicable

International Inventories

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
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:
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 Chemicals Inventory
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

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

Full text of any hazard and/or precautionary statements referred to under Sections 2-15
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 through prolonged or repeated exposure

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
+	Sensitizers		

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Chronic aquatic toxicity	Calculation method
Acute aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS
U.S. Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
U.S. 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)
Japan National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
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)
International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications
International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program
International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set
United Nations World Health Organization (WHO)

Revision date 19-Mar-2026

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
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

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 19-Mar-2026 **Revision Number** 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Safety data sheet number FG-413B

Product Name Part B: FlexFoam-iT! 15, 17, 23 FR, 25

Other means of identification

Unique Formula Identifier (UFI) FV70-W061-200U-WGSF

Pure substance/mixture Mixture

Contains Diethylene Glycol

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Polyurethane Elastomer

Uses advised against

1.3. Details of the supplier of the safety data sheet

Supplier
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

E-mail address sds@smooth-on.com

1.4. Emergency telephone number

Emergency Telephone CHEMTEL +01-813-248-0585

Emergency Telephone - §45 - (EC)1272/2008	
Europe	**112**
Austria	01 406 43 43
Belgium	070 245 245
Bulgaria	+359 9154 233
Croatia	+385 1 2348 342
Cyprus	1401
Czech Republic	224 91 92 93 22191 54 02
Denmark	+45 8212 1212
Estonia	16662
Finland	Maksuton Puhelu: 0800 147 111 Normihinta: +358 9 471 977
France	+33 01 45 42 59 59
Germany	112

Greece	(0030) 2107793777
Hungary	+36 80 201 199
Iceland	+354 543 2222
Ireland	01 837 9964 01 809 2566
Italy	06 3054 343 10 Italian Poison Centres: Rome +39 06-68593726 / +30 06-49978000 / +39 06-3054343, Foggia +39 800183459, Naples +39 081-5453333, Florenze +39 055-7947819, Pavia +39 0382-24444, Milan +39 02-66101029, Bergamo +39 80088300, Verona +39 800011858
Latvia	+370 (5) 2362052
Liechtenstein	01 406 43 43
Lithuania	+370 5 236 20 52 +370 687 533 78
Luxembourg	(+352) 8002 5500
Netherlands	+31 (0) 88 755 8000
Norway	22 59 13 00
Poland	+48 22 619 66 54
Portugal	+351 800 250 250
Romania	+40 21 599 2300
Slovakia	+421 2 5477 4166
Spain	+34 91 562 04 20
Sweden	112
Switzerland	145
United Kingdom	0344 892 0111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Oral	Category 4 - (H302)

2.2. Label elements

Contains Diethylene Glycol

Signal word
Warning

Hazard statements
H302 - Harmful if swallowed.

Precautionary Statements - EU (§28, 1272/2008)
P264 - Wash face, hands and any exposed skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
P330 - Rinse mouth.
P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

Additional information
This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

May be harmful in contact with skin.

Endocrine Disruptor Information This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Hazardous

Chemical name	Weight-%	REACH registration number	EC No. (Index No.)	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	Notes
Diethylene Glycol 111-46-6	5-10	No Data Available	203-872-2 (603-140-00-6)	Acute Tox. 4 (H302)	-	-	-	-

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate
If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Diethylene Glycol 111-46-6	12565	11890	4.6046	No data available	No data available

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59).

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a

physician.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Effects of Exposure No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

SECTION 5: Firefighting measures

5.1. 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.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical No information available.

5.3. Advice for firefighters

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

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1- Recommendations for those who intervene directly
No information available.

6.1.2.- Recommendations for those who do not intervene directly
No information available.

Personal precautions Ensure adequate ventilation.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

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

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

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

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

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

Storage class (TRGS 510) Storage class 10.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Diethylene Glycol 111-46-6	-	TWA-TMW: 10 ppm; TWA-TMW: 44 mg/m³; STEL-KZGW: 40 ppm (4 X 15 min); STEL-KZGW: 176 mg/m³ (4 X 15 min);	-	TWA: 10 mg/m³;	TWA-GVI: 23 ppm; TWA-GVI: 101 mg/m³;
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Diethylene Glycol 111-46-6	-	-	TWA: 2.5 ppm; TWA: 11 mg/m³; STEL: 5 ppm; STEL: 22 mg/m³;	TWA: 10 ppm; TWA: 45 mg/m³; STEL: 20 ppm; STEL: 90 mg/m³; Sk	-
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Diethylene Glycol 111-46-6	-	TWA-AGW; 10 ppm (exposure factor 4); TWA-AGW; 44 mg/m³ (exposure	TWA-MAK: 10 ppm; II(4); TWA-MAK: 44 mg/m³; II(4); Peak: 40 ppm;	-	-

		factor 4);	Peak: 176 mg/m³;		
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Diethylene Glycol 111-46-6	TWA: 23 ppm; TWA: 100 mg/m³; STEL: 69 ppm (calculated); STEL: 300 mg/m³ (calculated);	-	-	TWA: 10 mg/m³;	TWA-IPRD: 10 ppm; TWA-IPRD: 45 mg/m³; STEL-TPRD: 20 ppm; STEL-TPRD: 90 mg/m³; Sk
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Diethylene Glycol 111-46-6	-	-	-	-	TWA-NDS: 10 mg/m³; inhalable fraction
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Diethylene Glycol 111-46-6	-	TWA: 115 ppm; TWA: 500 mg/m³; STEL: 184 ppm; STEL: 800 mg/m³;	TWA: 10 ppm; TWA: 44 mg/m³; Ceiling: 90 mg/m³;	TWA: 10 ppm; TWA: 44 mg/m³; STEL: 40 ppm; STEL: 176 mg/m³;	-

Chemical name	Sweden	Switzerland	United Kingdom
Diethylene Glycol 111-46-6	TLV-NGV: 10 ppm; TLV-NGV: 45 mg/m³; STEL (Vägledande KGV): 20 ppm; STEL (Vägledande KGV): 90 mg/m³; Sk	TWA-MAK: 10 ppm; aerosol, vapour TWA-MAK: 44 mg/m³; aerosol, vapour STEL-KZGW: 40 ppm; aerosol, vapour STEL-KZGW: 176 mg/m³; aerosol, vapour	TWA: 23 ppm; TWA: 101 mg/m³; STEL: 69 ppm; STEL: 303 mg/m³;

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

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Diethylene Glycol 111-46-6	-	43 mg/kg bw/day [4] [6]	44 mg/m³ [4] [6] 60 mg/m³ [5] [6]

Notes
[4] Systemic health effects.
[5] Local health effects.
[6] Long term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Diethylene Glycol 111-46-6	-	-	12 mg/m³ [4] [6] 12 mg/m³ [5] [6]

Notes
[4] Systemic health effects.
[5] Local health effects.
[6] Long term.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

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

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

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.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Translucent viscous liquid
Color	Translucent
Odor	Mild to sweet.
Odor threshold	No information available

Property	**Values**	**Remarks • Method**
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	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 limits	No data available	
Flash point	> 148.8889 °C	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	No data available	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	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
Vapor pressure	No data available	None known
Relative density	1 - 1.1	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapor density	>1	None known

Particle characteristics

Particle Size	No information available
Particle Size Distribution	No information available

9.2. Other information

9.2.1. Information with regard to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

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

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available.
Eye contact	Specific test data for the substance or mixture is not available.
Skin contact	May be harmful in contact with skin.
Ingestion	Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity Harmful if swallowed.

Numerical measures of toxicity

The following ATE values have been calculated for the mixture

ATEmix (oral) 1,657.60 mg/kg
ATEmix (dermal) 2,122.80 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Diethylene Glycol	= 12565 mg/kg (Rat)	= 11890 mg/kg (Rabbit)	> 4600 mg/m³ (Rat) 4 h

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

Skin corrosion/irritation No information available.

Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Diethylene Glycol	-	LC50: =75200mg/L (96h, Pimephales promelas)	-	EC50: =84000mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Diethylene Glycol	-1.98

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
Diethylene Glycol	Not PBT/vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment 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.

SECTION 14: Transport information

IATA

14.1 UN number or ID number Not regulated

14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None

IMDG
14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None
14.7 Maritime transport in bulk according to IMO instruments No information available

RID
14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None

ADR
14.1 UN number or ID number Not regulated
14.2 UN proper shipping name Not regulated
14.3 Transport hazard class(es) Not regulated
14.4 Packing group Not regulated
14.5 Environmental hazards Not applicable
14.6 Special precautions for user
Special Provisions None

SECTION 15: Regulatory information

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

National regulations

France
Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
Diethylene Glycol - 111-46-6	RG 84

Germany
Water hazard class (WGK) slightly hazardous to water (WGK 1)

European Union
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorizations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Diethylene Glycol - 111-46-6	75	-

Persistent Organic Pollutants
Not applicable

Ozone-depleting substances (ODS) Regulation (EU) 2024/590
Not applicable

International Inventories

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
KECL	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:
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 Chemicals Inventory
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

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

Full text of any hazard and/or precautionary statements referred to under Sections 2-15
H302 - Harmful if swallowed

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
+	Sensitizers		

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Chronic aquatic toxicity	Calculation method
Acute aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

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

U.S. Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
U.S. 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)
Japan National Institute of Technology and Evaluation (NITE)
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
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)
International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications
International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program
International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set
United Nations World Health Organization (WHO)

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Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
Disclaimer
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End of Safety Data Sheet