

According to Regulation (EC) No 1907/2006 (REACH)	Sheet consists 1 of 37 pages Printing date: January 11, 2016 Version: 3.0-EN
	Revision date: January 11, 2016

SECTION 1: IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:

Identification on the label / Trade name: Aromatic Polyester Polyol, Polyester Polyol, Neopolyol (NEOPOLYOL FR, NEOPOLYOL 240 FR).

CAS No.: N/A EC No.: N/A

EC No.: N/A

REACH registration No.: N/A

Polyester polyol is a polymer and exempted from Registration according to the Article 2 (9) of Regulation EC 1907/2006 REACH.

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

Production of Polyurethane.

Polyol for production of PU (polyurethane) or PIR (polyisocyanurate) foams (panels, sandwiches, tube layer insulation and spray foam and CASE).

Identified uses	Sector of Use	Chemical Product Category	Process Category	Article Category	Environmental Release Category
240FR. CASE -	SU03	PC01	PROC01		ERC02
(Coatings,	SU12	PC09a	PROC02		ERC03
Adhesives,		PC21	PROC03		ERC05
Sealants,		PC32	PROC04		
Elastomers)			PROC05		
(Industrial)			PROC06		
			PROC07		
			PROC08a		
			PROC08b		
			PROC09		
			PROC10		
			PROC13		
			PROC14		
240FR.	SU03	PC32	PROC01		ERC02
Formulation	SU10		PROC02		ERC03
(Industrial)			PROC03		
			PROC04		
			PROC05		
			PROC06		
			PROC07		
			PROC08a		
			PROC08b		
			PROC09		
240FR. Foam	SU03	PC 32	PROC01		ERC01
granules			PROC02		ERC02
and rebound PUR			PROC03		ERC03
foam			PROC04		
(Industrial)			PROC05		
			PROC08a		



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240FR. Rigid foam (Industrial)	SU03 SU12	PC32	PROC08b PROC09 PROC14 PROC21 PROC01 PROC02 PROC03 PROC04 PROC05 PROC07 PROC08a PROC08b PROC09 PROC09 PROC19 PROC21		ERCO2 ERCO3 ERCO5
240FR. CASE - Professional applications, including service life (Professional)	SU22	PC01 PC09a PC32	PROC05 PROC08a PROC08b PROC10 PROC11 PROC13	AC01 AC04	ERC08c ERC08f
240FR. Laboratory reagent (Professional)	SU22	PC21	PROC15		ERC08a
240FR. One- Component foam, including Service Life (Professional)	SU22	PC21	PROC10 PROC11 PROC21		ERC10a ERC11a
240FR. Rigid foam (Professional)	SU22	PC21	PROC05 PROC08a PROC10 PROC11 PROC21	AC01 AC02 AC13	ERC08c ERC08f

1.3 Details of the supplier of the safety data sheet:

Manufacturer UAB NEO GROUP Industrijos st.2, LT—95346 Rimkai, Klaipeda district, LITHUANIA Tel.:+370 46 466710 Fax: +370 46 466711 e-mail: <u>msds@neogroup.eu</u> <u>www.neogroup.eu</u>

1.4 Emergency telephone numbers:



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Lithuanian Poison Control and Information Office: +370 5 236 20 52 or +370 687 53378 (24h) General emergency number: (+370) 112 (24h)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Acute Tox. 4H302 Harmful if swallowed.STOT RE 2H373 May cause damage to organs through prolonged or repeated
exposure. Affected Organs – kidney. Route of exposure – oral.

Eye Irrit. 2 H319 Causes serious eye irritation.

2.1.2 Additional information:

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.2 Label elements

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

Hazard Pictogram



GHS07: Exclamation mark GHS08: Health hazard Warning

Signal word Hazard statements

- H302 Harmful if swallowed.
- H319 Causes serious eye irritation
- H373 May cause damage to organs through prolonged or repealed exposure. Affected Organs kidney. Route of exposure oral.

Precautionary Statements Prevention

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash hand thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements Response

- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
 - P330 Rinse mouth.
 - P314 Get medical advice/attention if you feel unwell.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P337+P313 If eye irritation persists: Get medical advice/attention.

Precautionary Statements Disposal

P501 Dispose of absorbed material in accordance with regulations.

2.3 Other hazards

Not applicable. The substance is not PBT / vPvB.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Not applicable

3.2 Mixtures

Hazordous components name	CAS No	EC No	Index No	REACH Registration No	Content, % (wt.)	Classification according to Regulation (EC) No 1278/2008 (CLP)
Polyester Polyol	N/A	N/A	N/A	N/A	70-90%	not classified as hazardous
Reaction product of propylene oxide and phosphorus oxychloride. main component: Tris(2-chloro-1- methylethyl) phosphate CAS 13674-84-5	N/A	911-815-4	N/A	01-2119486772-26-XXXX	0-20%	Acute Tox. 4, H302
Triethyl phosphate	78-40-0	201-114-5	015-013-00-7	01-2119492852-28-XXXX	0-5%	Acute Tox. 4, H302 Eye Irrit. 2, H319
Diethylene glycol (2,2'- oxybisethanol)	111-46-6	203-872-2	603-140-00-6	01-2119457857-21-XXXX	1-5%	Acute Tox. 4, H302 STOT RE 2, H373

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information: First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists, refer to Section 8 for specific personal protective equipment.

Eyes: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.

Skin: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention. Clean shoes thoroughly before reuse.

Inhalation: If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Seek medical attention.



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Ingestion: If the material swallowed, get immediate medical attention or advice.

4.2 Most important symptoms and effects, both acute and delayed No future relevant information available

4.3 Indication of any immediate medical attention and special treatment needed Treat symptomatically. Contact poison specialist immediately, if material swallowed.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, alcohol resistant foam, carbon dioxide, water fog. Unsuitable extinguishing media: Do not use direct water stream. May spread fire.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: During a fire, smoke may contain the original material in addition to combustion products of varying composition, which may be toxic and/or irritating. Combustion products may include and are not limited to: carbon monoxide, carbon dioxide, phosphorus oxide, halogenated compounds.

5.3 Advice for firefighters

Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

No action shall be taken involving any personal risk or without suitable training. Isolate spill or leak area immediately. Keep unnecessary and unprotected personnel from entering the area. Use appropriate safety equipment. Provide adequate ventilation

6.2 Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Contain spilled material if possible. Collect in suitable and properly labeled containers. Small spills: Stop leak if without risk. Move containers from spill area. Absorb or cover with dry earth, sand or other inert dry material and transfer to appropriate waste disposal containers. Large spills: Stop leak if without risk. Move containers from spill area. Dike ahead of liquid spill for later disposal. Prevent entry into waterways, sewers, basements or confined areas. Absorb or cover with dry earth, sand or other inert dry material or pump and transfer to appropriate waste disposal containers.

6.4 Reference to other sections

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Seccion 1 - for emergency contact information. Section 8 - personal protection Section 9 - chemical and physical properties Section 13 - disposal

SECTION 7: HANDLING & STORAGE

7.1 Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Keep ignition sources away – do not smoke. Protect against electrical charges.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container. Protect from frost and direct sunlight. Store in a dry and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Recommended storage temperature $25 \div 60^{\circ}$ C. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s):

Not available

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits: The product does not contain any relevant quantities of the material with critical values that have to be monitored at the workplace. There is no occupational exposure limit value for diethylene glycol established by European Commission. The limit value according the national regulation on the maximum permissible concertation of diethylene glycol in the work environment is 45 mg/m³ or 10 ppm as an 8-hour time-weighted average.

Exposure controls: Provide adequate ventilation.

Personal protection equipment:

Eye and face protection: Wear approved safety goggles.

Skin protection: Wear suitable protective clothing as protection against splashing or contamination.

Hand protection: Wear suitable protective clothing as protection against splashing or contamination.



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Respiratory protection: Respiratory protection may be needed for non-routine or emergency situations.

Environmental exposure controls: Avoid seepage into groundwater and drains. See Section 6.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Physical appearance Odor	viscous liquid, color from yellow to brown irritant
Odor threshold	no data available
Flash Point	>93.9°C; (> 201 F)
Flamability (solid, gas)	Supporting combustion
Boiling Point	>240.6°C; (465 F)
Melting point	Undetermined
Specific Gravity	1.2 g/ml; (10 lb/gal)
Vapour Density	Estimated heavier than air
Viscosity	1000-4000 mPas @ 25 (cP @ 25 C)
Evaporation Rate	Slower than ethyl ether
pH Value	3.8 in 14:1 Acetone/Water
Solubility	soluble in acetone and ethyl acetate
Upper/lower flammability or explo	osive limits Undetermined
Partition coefficient n-octanol/wa	ter Undetermined
Auto-ignition temperature	Undetermined
Decomposition temperature	Undetermined
Explosive properties	Undetermined
Oxidising properties	Undetermined

SECTION 10: STABILITY & REACTIVITY

Reactivity: Slightly chemically reactive substance Chemical Stability: stable under normal conditions. Hygroscopic substance. Possibility of hazardous reactions: not applicable Condition to avoid: strong oxidizing agents. Incompatible materials: strong oxidizing agents. Hazardous decomposition products: combustion products as carbon oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

No experimental toxicological data on the mixture. This health risk assessment is based on data available on diethylene glycol, reaction product of propylene oxide and phosphorus oxychloride and triethyl phophate components.

Diethylene glycol	Reaction product of propylene oxide and phosphorus oxychloride	Triethyl phosphate
Acute toxicity oral:		

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LD50: 19600 mg/kg bw (rat male); LD50: 16500 mg/kg bw (rat male/female); LD50: 1120 mg/kg bw	LD50: 632 mg/kg (rat female) LD50: 500 – 2000 mg/kg (rat male)	LD50: 1600 mg/g (rat)
Acute toxicity inhalation:		
LC50 (4 h): > 4.6 mg/L air (No animals died during the 14-day observation period). The LC50 for the test item as aerosol was above 4.6 mg/L, which was the maximum attainable concentration.	LC50 (4h): >7 mg/l (rat)	LC50 (4h): 8.82mg/L (rat)
Acute toxicity dermal:		
LD50: 13300 mg/kg bw (rabbit). For the dermal route of exposure, classification is not needed.	LD50: >2000 mg/kg (rat male)	LD50: 20 000 mg/kg (rabbit)
Skin corrosion/irritation:		
not irritating	Not irritating (Rabbit)	not irritating
Serious eye damage/irritation:		
In animal studies, (Draize Test - rabbits - 0.5 ml), there was no eye irritation.	No known significant effects or critical hazards	Moderate irritant
Respiratory or skin sensitization:		
the substance is not classified as hazardous in this class.	the substance is not classified as hazardous in this class	Not sensitizing
mutagenicity:		
the substance is not classified as hazardous in this class	the substance is not classified as hazardous in this class	the substance is not classified as hazardous in this class
carcinogenicity:		
the substance is not classified as hazardous in this class	the substance is not classified as hazardous in this class	the substance is not classified as hazardous in this class
reproductive toxicity:		
the substance is not classified as hazardous in this class	the substance is not classified as hazardous in this class	the substance is not classified as hazardous in this class
STOT-repeated exposure:		
STOT RE 2 with regard to oral exposure. Target organ – kidney.	the substance is not classified as hazardous in this class	the substance is not classified as hazardous in this class
Aspiration hazard: not available		

SECTION 12: ECOLOGICAL INFORMATION

No experimental toxicological data on the mixture. This risk assessment is based on data available on diethylene glycol, reaction product of propylene oxide and phosphorus oxychloride and triethyl phophate components.

12.1 Toxicity

Diethylene glycol	Reaction product of propylene oxide and phosphorus oxychloride	Triethyl phosphate
Acute (short-term) toxicity:		
Fish: Pimephales promelas	Pimephales promelas	Pimephales promelas
LC50 (96 h) - 75200mg/L test mat	LC50 (96 h) - 51 mg/l	LC50 (96 h) > 100 mg/L test mat
(nominal)		(nominal)
Crustacea: Daphania – Daphnia	Daphania – Daphnia magna	Daphania – Daphnia magna



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magna EC50 (24h) - >10000 mg/L	EC50 (48h) – 131 mg/l	EC50 (24h) - 900 mg/L
Algae/aquatic plants: With high probability the test substance is acutely not harmful to aquatic algae	Algae – Pseudokirchneriella Subcapitata IC50 (72 h) – 82 mg/L	Algae - Scenedesmus subspicatus IC50 (72h) – 901 mg/l
Other organisms: not available		
Chronic (long-term) toxicity:		
Fish: Pimephales promelas NOEC (7d.): 15380 mg/L, LC50 (28 d.): >1500 mg/L	Pimephales promelas NOEC (96h.): 9,8 mg/l	not available
Crustacea: not available	Daphania – Daphnia magna NOEC (21d.): 40 mg/L	Daphania – Daphnia magna NOEC (21d.): 31.6 mg/L
Algae/aquatic plants: With high probability, the test substance is acutely not harmful to aquatic algae	Algae – Pseudokirchneriella Subcapitata NOEC (72 h) – 13 mg/L	not available
Other organisms: not available		

12.2 Persistence and degradability

Diethylene glycol	Reaction product of propylene oxide and phosphorus oxychloride	Triethyl phosphate
Abiotic Degradation: not available	not available	not available
Biodegradation: not available	not available	not available
<i>Physical- and photo-chemical elimination:</i> 50%; 0.72 d	not available	not available

12.3 Bioaccumulative potential: low

Diethylene glycol	Reaction product of propylene oxide and phosphorus oxychloride	Triethyl phosphate
Partition coefficient n-octanol /water	Not available	1,11
(logPow): -1.98		
Bioconcentration factor (BCF): 100	0,8 - 14	<1.3

12.4 Mobility in soil: Not available

12.5 Results of PBT and vPvB assessment: Not applicable. The substances are not PBT / vPvB.

12.6 Other adverse effects: Not applicable.

AOX: some components contain organically bound halogens and can contribute to the AOX value in waste water.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product / Packaging disposal: The generation of the waste should be avoided or minimized wherever possible. Disposal of this product should be treated as a hazardous waste according to EC Directive 2008/98/EC. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials, additional evaluations may be required. Do not dump into any sewers, on the ground, or into any body of water.

Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its containers must be disposed of a safe way. Care should be taken, when handling emptied containers, which have not been cleaned or rinsed out. Empty containers may



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retain some product residues. Avoid dispersal of split material and runoff and contact with soil, waterways, drains and sewers. Waste codes / waste designations according to LoW: proposed waste codes 16 05 08 (16 - other wastes from industry, 05 -gases in pressure containers and discarded chemical, 08 - discarded organic chemical consisting of or containing hazardous substances) or 16 03 05 (16 - other wastes from industry, 03 – off-specification batches and unused products, 05 – organic wastes containing hazardous substances).

SECTION 14: TRANSPORT INFORMATION

The product is not covered by international regulations on the transport of dangerous goods.

UN number: Not hazardous for transport

UN Proper Shipping Name: Not hazardous for transport

Transport Hazard Class: Not hazardous according the transport rules IMO, ADR/RID, ICAO

Packing group: Not hazardous according the transport rules IMO, ADR/RID, ICAO

Environmental hazards: Not hazardous according the transport rules IMO, ADR/RID, ICAO

Special precautions for user: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulations for all EU Member states:

- Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006. Concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency with following amendments.
- Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008. On classification, labeling and packaging of substances and mixtures (CLP), amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006.
- Regulation (EU) No 453/2010 of the Commission of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
- Regulation (EC) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Regulation (EC) 649/2012 of the European Parliament and of the Council of 4 July 2012. Concerning the export and import of hazardous chemicals.
- European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR) Authorisations and/or restrictions on use:

• Substances of very high concern (SVHC) according to Article 59(10) of the REACH Regulation Other EU regulations:

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.



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SECTION 16: OTHER INFORMATION

Information on MSDS updates:

Version 1.0: initial issue 14-10-2011

Version 2.0: Changes from the previous version: section 1-16

Version 3.0: Changes from the previous version: section 1-16

Relevant phrases:

H302 Harmful if swallowed.

H319 Causes serious eye irritation

H373 May cause damage to organs through prolonged or repeated exposure. Affected Organs – kidney. Route of exposure – oral.

Abbreviations and acronyms:

CAS Chemical Abstracts Service (Division of the American Chemical Society) EC European Commission REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation EC 1907/2006 CLP Classification, Labelling and Packaging Regulation EC 1272/2008 PBP Persistent, Bioaccumulative and Toxic VPvB Very Persistent and very Bioaccumatalive STOT RE Specific Target Organ Toxicity repeated exposure logPow octanol-water partition coefficient LDxx Lethal Concentration, for xx percent of test population LNX Lethal Concentration, for xx percent of test population. N/A Not available PU polyuscyanurate GHS Globally Harmonized System LoW List of Waste NOEC No Observed Effect Concentration UN United Nations BCF Bioconcentration factor ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road IMO International Maritime Organization RID Règlement Concernant le Transport International Ferroviaire Marchandises Dangereuses (transport of dangerous goods by rail) AOX Halogenated org	SDS	Safety data sheet	
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation EC 1907/2006 CLP Classification, Labelling and Packaging Regulation EC 1272/2008 PBP Persistent, Bioaccumulative and Toxic vPv8 Very Persistent and very Bioaccumatalive STOT RE Specific Target Organ Toxicity repeated exposure logPow octanol-water partition coefficient LCxx Lethal Dose, for xx percent of test population LDxx Lethal Dose, for xx percent of test population. N/A Not available PU polyurethane PIR polyisocyanurate GHS Globally Harmonized System LoW List of Waste NOEC No Observed Effect Concentration UN United Nations BCF Bioconcentration factor ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road IMO International Civil Aviation Organization RID Reglement Concernant le Transport International Ferroviaire Marchandises Dangereuses (transport of dangerous goods by rail) ICAO International Civil Aviation Organization AOX <td>CAS</td> <td>Chemical Abstracts Service (Division of the American Chemical Society)</td>	CAS	Chemical Abstracts Service (Division of the American Chemical Society)	
CLP Classification, Labelling and Packaging Regulation EC 1272/2008 PBP Persistent, Bioaccumulative and Toxic VPVB Very Persistent and very Bioaccumatalive STOT RE Specific Target Organ Toxicity repeated exposure logPow octanol-water partition coefficient LCxx Lethal Concentration, for xx percent of test population LDxx Lethal Dose, for xx percent of test population N/A Not available PU polyurethane PIR polyisocyanurate GHS Globally Harmonized System Low List of Waste NOEC No Observed Effect Concentration UN United Nations BCF Bioconcentration factor ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road IMO International Maritime Organization RID Règlement Concernant le Transport International Ferroviaire Marchandises Dangereuses (transport of dangerous goods by rail) ICAO International Civil Aviation Organization AOX Halogenated organic compounds Wording of the instructions for use according to Use Descriptor System, to which reference is made in paragraph 1:	EC	European Commission	
PBP Persistent, Bioaccumulative and Toxic VPVB Very Persistent and very Bioaccumatalive STOT RE Specific Target Organ Toxicity repeated exposure logPow octanol-water partition coefficient LCxx Lethal Concentration, for xx percent of test population LDxx Lethal Dose, for xx percent of test population N/A Not available PU polyurethane PIR polyisocyanurate GHS Globally Harmonized System LoW List of Waste NOEC No Observed Effect Concentration UN United Nations BCF Bioconcentration factor ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road IMO International Maritime Organization RID Règlement Concernant le Transport International Ferroviaire Marchandises Dangereuses (transport of dangerous goods by rail) ICAO International Givil Aviation Organization AOX Halogenated organic compounds Wording of the instructions for use according to Use Descriptor System, to which reference is made in paragraph 1: AC01 Vehicles	REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation EC 1907/2006	
VPVB Very Persistent and very Bioaccumatalive STOT RE Specific Target Organ Toxicity repeated exposure logPow octanol-water partition coefficient LCxx Lethal Concentration, for xx percent of test population LDxx Lethal Dose, for xx percent of test population. N/A Not available PU polyisocyanurate GHS Globally Harmonized System LoW List of Waste NOEC No Observed Effect Concentration UN United Nations BCF Bioconcentration factor ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road IMO International Maritime Organization RID Règlement Concernant le Transport International Ferroviaire Marchandises Dangereuses (transport of dangerous goods by rail) ICAO International Civil Aviation Organization AOX Halogenated organic compounds Wording of the instructions for use according to Use Descriptor System, to which reference is made in paragraph 1: AC01 Vehicles AC02 Machinery, mechanical appliances, electrical/electronic AC03	CLP	Classification, Labelling and Packaging Regulation EC 1272/2008	
STOT RE Specific Target Organ Toxicity repeated exposure logPow octanol-water partition coefficient LCxx Lethal Concentration, for xx percent of test population LDxx Lethal Dose, for xx percent of test population. N/A Not available PU polyuerthane PIR polyisocyanurate GHS Globally Harmonized System LoW List of Waste NOEC No Observed Effect Concentration UN United Nations BCF Bioconcentration factor ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road IMO International Maritime Organization RID Règlement Concernant le Transport International Ferroviaire Marchandises Dangereuses (transport of dangerous goods by rail) ICAO International Civil Aviation Organization ACO1 International Civil Aviation Organization ACO2 Machinery, mechanical appliances, electrical/electronic AC04 Stone, plaster, cement, glass and ceramic articles AC05 Fabrics, textiles and apparel AC07 Metal articles AC03 Fabrics, textiles and apparel <td>PBP</td> <td>Persistent, Bioaccumulative and Toxic</td>	PBP	Persistent, Bioaccumulative and Toxic	
logPowoctanol-water partition coefficientLCxxLethal Concentration, for xx percent of test populationLDxxLethal Dose, for xx percent of test population.N/ANot availablePUpolyurethanePIRpolyisocyanurateGHSGlobally Harmonized SystemLowList of WasteNOECNo Observed Effect ConcentrationUNUnited NationsBCFBioconcentration factorADREuropean Agreement Concerning the International Carriage of Dangerous Goods by RoadIMOInternational Maritime OrganizationRIDRèglement Concernant le Transport International Ferroviaire Marchandises Dangereuses (transport of dangerous goods by rail)ICAOInternational Civil Aviation OrganizationAOXHalogenated organic compoundsWording of the instructions for use according to Use Descriptor System, to which reference is made in paragraph 1:AC01VehiclesAC02Machinery, mechanical appliances, electrical/electronicAC03Fabrics, textiles and apparelAC07Metal articlesAC07Metal articlesAC11Wood articlesAC22Formulation of preparations	vPvB	Very Persistent and very Bioaccumatalive	
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According to Regulation (EC) No 1907/2006 (REACH)

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PROC04 PROC04 Use in batch and other process (synthesis) where opportunity for exposure arises PROC05 PROC05 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) PROC06 Calendering operations PROC07 Industrial spraying PROC08a Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC09 Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC09 Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC11 Non industrial spraying PROC13 Treatment of articles by dipping and pouring PROC14 Production of preparations or articles by tabletting, compression, extrusion, pelletisation PROC19 Hand-mixing with intimate contact and only PPE PROC19 Hand-mixing of substances as such or in preparations at industrial sites SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys) SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys) SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys) SU12	PROC02	Use in closed, continuous process with occasional controlled exposure	
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significant contact)PROC06Calendering operationsPROC07Industrial sprayingPROC08aTransfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilitiesPROC08bPROC08b Transfer of substance or preparation(charging/discharging) from/to vessels/large containers at dedicated facilitiesPROC09Transfer of substance or preparation into small containers (dedicated filling line, including weighing)PROC10Roller application or brushingPROC11Non industrial sprayingPROC13Treatment of articles by dipping and pouringPROC14Production of preparations or articles by tabletting, compression, extrusion, pelletisationPROC15Use as laboratory reagentPROC21Low energy manipulation of substances as such or in preparations at industrial sitesSU03Industrial uses: Uses of substances as such or in preparations at industrial sitesSU10Formulation [mixing] of preparations and/or re-packaging (excluding alloys)SU12Manufacture of plastics products, including compounding and conversionSU21Consumer uses: Private households (= general public = consumers)	PROC04	PROC04 Use in batch and other process (synthesis) where opportunity for exposure arises	
PROC06Calendering operationsPROC07Industrial sprayingPROC08aTransfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilitiesPROC08bPROC08b Transfer of substance or preparation(charging/discharging) from/to vessels/large containers at dedicated facilitiesPROC09Transfer of substance or preparation into small containers (dedicated filling line, including weighing)PROC10Roller application or brushingPROC11Non industrial sprayingPROC13Treatment of articles by dipping and pouringPROC14Production of preparations or articles by tabletting, compression, extrusion, pelletisationPROC15Use as laboratory reagentPROC21Low energy manipulation of substances bound in materials and/or articlesSU03Industrial uses: Uses of substances as such or in preparations at industrial sitesSU10Formulation [mixing] of preparations and/or re-packaging (excluding alloys)SU12Manufacture of plastics products, including compounding and conversionSU21Consumer uses: Private households (= general public = consumers)	PROC05	PROC05 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or	
PROC07Industrial sprayingPROC08aTransfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilitiesPROC08bPROC08b Transfer of substance or preparation(charging/discharging) from/to vessels/large containers at dedicated facilitiesPROC09Transfer of substance or preparation into small containers (dedicated filling line, including weighing)PROC10Roller application or brushingPROC11Non industrial sprayingPROC13Treatment of articles by dipping and pouringPROC14Production of preparations or articles by tabletting, compression, extrusion, pelletisationPROC15Use as laboratory reagentPROC21Low energy manipulation of substances bound in materials and/or articlesSU03Industrial uses: Uses of substances as such or in preparations at industrial sitesSU10Formulation [mixing] of preparations and/or re-packaging (excluding alloys)SU12Manufacture of plastics products, including compounding and conversionSU21Consumer uses: Private households (= general public = consumers)		significant contact)	
PROC08aTransfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilitiesPROC08bPROC08b Transfer of substance or preparation(charging/discharging) from/to vessels/large containers at dedicated facilitiesPROC09Transfer of substance or preparation into small containers (dedicated filling line, including weighing)PROC10Roller application or brushingPROC11Non industrial sprayingPROC13Treatment of articles by dipping and pouringPROC14Production of preparations or articles by tabletting, compression, extrusion, pelletisationPROC15Use as laboratory reagentPROC21Low energy manipulation of substances bound in materials and/or articlesSU03Industrial uses: Uses of substances as such or in preparations at industrial sitesSU10Formulation [mixing] of preparations and/or re-packaging (excluding alloys)SU12Manufacture of plastics products, including compounding and conversionSU21Consumer uses: Private households (= general public = consumers)	PROC06	Calendering operations	
facilitiesPROC08bPROC08b Transfer of substance or preparation(charging/discharging) from/to vessels/large containers at dedicated facilitiesPROC09Transfer of substance or preparation into small containers (dedicated filling line, including weighing)PROC10Roller application or brushingPROC11Non industrial sprayingPROC13Treatment of articles by dipping and pouringPROC14Production of preparations or articles by tabletting, compression, extrusion, pelletisationPROC15Use as laboratory reagentPROC21Low energy manipulation of substances bound in materials and/or articlesSU03Industrial uses: Uses of substances as such or in preparations at industrial sitesSU10Formulation [mixing] of preparations and/or re-packaging (excluding alloys)SU12Manufacture of plastics products, including compounding and conversionSU21Consumer uses: Private households (= general public = consumers)	PROC07	Industrial spraying	
PROC08bPROC08b Transfer of substance or preparation(charging/discharging) from/to vessels/large containers at dedicated facilitiesPROC09Transfer of substance or preparation into small containers (dedicated filling line, including weighing)PROC10Roller application or brushingPROC11Non industrial sprayingPROC13Treatment of articles by dipping and pouringPROC14Production of preparations or articles by tabletting, compression, extrusion, pelletisationPROC15Use as laboratory reagentPROC21Low energy manipulation of substances bound in materials and/or articlesSU03Industrial uses: Uses of substances as such or in preparations at industrial sitesSU10Formulation [mixing] of preparations and/or re-packaging (excluding alloys)SU12Manufacture of plastics products, including compounding and conversionSU21Consumer uses: Private households (= general public = consumers)	PROC08a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated	
dedicated facilitiesPROC09Transfer of substance or preparation into small containers (dedicated filling line, including weighing)PROC10Roller application or brushingPROC11Non industrial sprayingPROC13Treatment of articles by dipping and pouringPROC14Production of preparations or articles by tabletting, compression, extrusion, pelletisationPROC15Use as laboratory reagentPROC19Hand-mixing with intimate contact and only PPEPROC21Low energy manipulation of substances bound in materials and/or articlesSU03Industrial uses: Uses of substances as such or in preparations at industrial sitesSU10Formulation [mixing] of preparations and/or re-packaging (excluding alloys)SU12Manufacture of plastics products, including compounding and conversionSU21Consumer uses: Private households (= general public = consumers)		facilities	
PROC10Roller application or brushingPROC11Non industrial sprayingPROC13Treatment of articles by dipping and pouringPROC14Production of preparations or articles by tabletting, compression, extrusion, pelletisationPROC15Use as laboratory reagentPROC19Hand-mixing with intimate contact and only PPEPROC21Low energy manipulation of substances bound in materials and/or articlesSU03Industrial uses: Uses of substances as such or in preparations at industrial sitesSU10Formulation [mixing] of preparations and/or re-packaging (excluding alloys)SU12Manufacture of plastics products, including compounding and conversionSU21Consumer uses: Private households (= general public = consumers)	PROC08b		
PROC11Non industrial sprayingPROC13Treatment of articles by dipping and pouringPROC14Production of preparations or articles by tabletting, compression, extrusion, pelletisationPROC15Use as laboratory reagentPROC19Hand-mixing with intimate contact and only PPEPROC21Low energy manipulation of substances bound in materials and/or articlesSU03Industrial uses: Uses of substances as such or in preparations at industrial sitesSU10Formulation [mixing] of preparations and/or re-packaging (excluding alloys)SU12Manufacture of plastics products, including compounding and conversionSU21Consumer uses: Private households (= general public = consumers)	PROC09	Transfer of substance or preparation into small containers (dedicated filling line, including weighing)	
PROC13Treatment of articles by dipping and pouringPROC14Production of preparations or articles by tabletting, compression, extrusion, pelletisationPROC15Use as laboratory reagentPROC19Hand-mixing with intimate contact and only PPEPROC21Low energy manipulation of substances bound in materials and/or articlesSU03Industrial uses: Uses of substances as such or in preparations at industrial sitesSU10Formulation [mixing] of preparations and/or re-packaging (excluding alloys)SU12Manufacture of plastics products, including compounding and conversionSU21Consumer uses: Private households (= general public = consumers)	PROC10	Roller application or brushing	
PROC14Production of preparations or articles by tabletting, compression, extrusion, pelletisationPROC15Use as laboratory reagentPROC19Hand-mixing with intimate contact and only PPEPROC21Low energy manipulation of substances bound in materials and/or articlesSU03Industrial uses: Uses of substances as such or in preparations at industrial sitesSU10Formulation [mixing] of preparations and/or re-packaging (excluding alloys)SU12Manufacture of plastics products, including compounding and conversionSU21Consumer uses: Private households (= general public = consumers)	PROC11	Non industrial spraying	
PROC15Use as laboratory reagentPROC19Hand-mixing with intimate contact and only PPEPROC21Low energy manipulation of substances bound in materials and/or articlesSU03Industrial uses: Uses of substances as such or in preparations at industrial sitesSU10Formulation [mixing] of preparations and/or re-packaging (excluding alloys)SU12Manufacture of plastics products, including compounding and conversionSU21Consumer uses: Private households (= general public = consumers)	PROC13	Treatment of articles by dipping and pouring	
PROC19Hand-mixing with intimate contact and only PPEPROC21Low energy manipulation of substances bound in materials and/or articlesSU03Industrial uses: Uses of substances as such or in preparations at industrial sitesSU10Formulation [mixing] of preparations and/or re-packaging (excluding alloys)SU12Manufacture of plastics products, including compounding and conversionSU21Consumer uses: Private households (= general public = consumers)	PROC14	Production of preparations or articles by tabletting, compression, extrusion, pelletisation	
PROC21Low energy manipulation of substances bound in materials and/or articlesSU03Industrial uses: Uses of substances as such or in preparations at industrial sitesSU10Formulation [mixing] of preparations and/or re-packaging (excluding alloys)SU12Manufacture of plastics products, including compounding and conversionSU21Consumer uses: Private households (= general public = consumers)	PROC15	Use as laboratory reagent	
PROC21Low energy manipulation of substances bound in materials and/or articlesSU03Industrial uses: Uses of substances as such or in preparations at industrial sitesSU10Formulation [mixing] of preparations and/or re-packaging (excluding alloys)SU12Manufacture of plastics products, including compounding and conversionSU21Consumer uses: Private households (= general public = consumers)	PROC19	Hand-mixing with intimate contact and only PPE	
SU10Formulation [mixing] of preparations and/or re-packaging (excluding alloys)SU12Manufacture of plastics products, including compounding and conversionSU21Consumer uses: Private households (= general public = consumers)	PROC21		
SU12Manufacture of plastics products, including compounding and conversionSU21Consumer uses: Private households (= general public = consumers)	SU03		
SU12Manufacture of plastics products, including compounding and conversionSU21Consumer uses: Private households (= general public = consumers)	SU10		
SU21 Consumer uses: Private households (= general public = consumers)	SU12		
	SU21		
	SU22		

This information is based upon the present state of our knowledge. 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 it is specified in the text.



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Annex to the extended Safety Data Sheet (eSDS)

Identification of the substance or mixture

Product definition : Multi-constituent substance

Product name : 240FR

Section 1 - Title

Short title of the exposure scenario	240FR. CASE (Coatings, Adhesives, Sealants, Elastomers) (Industrial)
List of use descriptors	Identified use name: 240FR. CASE (Coatings, Adhesives,
	Sealants, Elastomers) (Industrial)
	Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC06, PROC07, PROC08a, PROC08b, PROC09, PROC10, PROC13, PROC14
	Substance supplied to that use in form of: As such
	Sector of end use: SU03, SU12
	Subsequent service life relevant for that use: No.
	Environmental Release Category: ERC02, ERC03, ERC05
	Market sector by type of chemical product: PC01, PC09a, PC21, PC32
Name of contributing environmental scenario and corresponding ERC	See ES rigid foam Industry application
List of names of contributing worker scenarios and corresponding PROCs	PROC01, PROC02, PROC03, PROC04, PROC05, PROC06, PROC07, PROC08a, PROC08b, PROC09, PROC10, PROC13, PROC14

Section 2 - Exposure controls

Contributing exposure scenario controlling environmental exposure for: See ES rigid foam Industry application.

Contributing exposure scenario controlling worker exposure for : -PROC01, PROC02, PROC03, PROC04, PROC05, PROC06, PROC07, PROC08a, PROC08b, PROC09, PROC10, PROC13, PROC14

Product Characteristics	Vapour pressure: < 0.0001 hPa. (25 °C)
Concentration of substance in mixture or article	≤ 30%
Physical state	liquid , solid
Dust	Not applicable.
Amounts used	Not relevant
Frequency and duration of use	Exposure duration per year: 230 d
	Exposure duration per day: 8 h (full shift).
Other given operational conditions affecting	Indoor use
workers exposure	Use at room temperature
Technical conditions and measures to control dispersion from source towards the worker	Local exhaust ventilation required. (PROC04, PROC05, PROC06,PROC07, PROC08a, PROC08b, PROC09, PROC10, PROC13, PROC14)



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Organisational measures to prevent/limit releases, dispersion and exposure	Only properly trained and authorised personnel shall handle the substance. Substance-handling procedures shall be well documented and strictly supervised	
Conditions and measures relate	d to personal protection, hygiene and health evaluation	
Personal protection	Wear protective clothing as described in section 8.	
	Wear gloves as described in section 8.	
Exposure estimation and reference to its source -	Environment: See ES rigid foam Industry application	
Section 3 - Exposure estimation and refere	nce to its source	
Website	Not available	
Exposure estimation and reference to its source -	Environment: See ES rigid foam Industry application.	
Exposure assessment (environment):	Amount has been added to ES rigid foam - industrial applications (80 %) and ES rigid foam - professional application (20 %)	
Exposure estimation	The predicted exposure concentrations for air, the aquatic and the terrestrial environment are below derived PNEC values, resulting in RCRs < 1.	
Exposure estimation and reference to its source PROC07, PROC08a, PROC08b, PROC09, PROC10, P	ce - Workers: -PROC01, PROC02, PROC03, PROC04, PROC05, PROC06, ROC13, PROC14	
Exposure assessment (human):	ECETOC TRA (04/2010)	
Exposure estimation	The calculated individual and combined (dermal and inhalation) exposure values are below the DNELs (RCR < 1).	
Section 4 - Guidance to Downstream User to evaluate if he works inside the boundaries set by the ES		
Environment	Not applicable.	
Health	Under the above listed conditions, the process is deemed safe. Other conditions should only be considered when measurements or suitable calculations show that the RCR is <1.	
Additional good practice advice beyond the REACH CSA		
Environment	Not available.	
Health	Not available.	



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Annex to the extended Safety Data Sheet (eSDS)

Identification of the substance or mixture

Product definition : Multi-constituent substance

Product name : 240FR

Section 1 - Title

Short title of the exposure scenario	240FR. Formulation (Industrial)	
List of use descriptors	Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, PROC08b, PROC09	
	Substance supplied to that use in form of: As such Sector of end use: SU03, SU10	
	Subsequent service life relevant for that use: No. Environmental	
	Release Category: ERC02, ERC03	
	Market sector by type of chemical product: PC32	

Name of contributing environmental scenario ERC02, ERC03 and corresponding ERC

List of names of contributing worker scenarios PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, and corresponding PROCs PROC08b, PROC09

Section 2 - Exposure controls

Contributing exposure scenario controlling environmental exposure for: See ES rigid foam Industry application.

Contributing exposure scenario controlling worker exposure for : -PROC01, PROC02, PROC03, PROC04, PROC05, PROC06, PROC07, PROC08a, PROC08b, PROC09, PROC10, PROC13, PROC14

Product Characteristics	Vapour pressure: < 0.0001 hPa. (25 °C)
Concentration of substance in mixture or article	≤ 30%
Physical state	liquid , solid
Dust	Not applicable.
Amounts used Frequency and duration of use Environmental factors not influenced by risk management Other given operational conditions affecting workers exposure	22975 t/a Exposure duration per year: 300 d Local freshwater dilution factor: 10. If receiving surface water flow is (m³/d): 18 000. Local marine water dilution factor: 100. Indoor use
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil Organisational measures to prevent/limit release from site Conditions and measures related to municipal sewage treatment plant	The waste water has to be directed to a dedicated sewage treatment plant or treated by other suitable techniques. Floor should be impervious, resisting to liquid and easy to clean. Only properly trained and authorised personnel shall handle the substance. Substance-handling procedures shall be well documented and strictly supervised Size of sewage treatment plant (m ³ /d): 2000



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	ions and measures related to external ient of waste for disposal	General inform	nation on waste disposal see section 13.
	ions and measures related to external	Not applicable	
recove	ery of waste		
Cont	ributing exposure scenario controlling work	er exposure foi	r : -PROC01, PROC02, PROC03, PROC04, PROC05,
		8a, PROC08b, P	
	ct Characteristics		ıre: <0.0001 hPa (25 °C)
	ntration of substance in mixture or article	100%	
-	al state	Liquid	
Dust		Not applicable	
	nts used	Not applicable	
Freque	ency and duration of use	-	ition per year: 230 d
		-	ition per day: 8 h (full shift).
	given operational conditions affecting	Indoor use.	
	rs exposure		It temperature
	cal conditions and measures to control		ventilation required. (PROC04, PROC05,
-	sion from source towards the worker)CO8b, PROCO9)
-	isational measures to prevent/limit		trained and authorised personnel shall handle the
release	es, dispersion and exposure		ostance-handling procedures shall be well
		uocumenteu a	and strictly supervised.
	Conditions and measures related to	personal protee	ction, hygiene and health evaluation
Persor	al protection	Wear protecti	ve clothing as described in section 8.
		Wear gloves a	s described in section 8.
Section 3 - Exposure estimation and reference to its source			
Websi	te	Not available	
Exposi	ure estimation and reference to its source - I	Environment: S	ee ES rigid foam Industry application.
Exposi	ure assessment (environment):	EUSES (v2.1) v	vith setting from EU RAR (2008) A1a, A2, A3, A4
Exposi	ure estimation	-	exposure concentrations for air, the aquatic and I environment are below derived PNEC values, Rs < 1.
-	ure estimation and reference to its source - 7, PROC08a, PROC08b, PROC09	Workers: -PRO	C01, PROC02, PROC03, PROC04, PROC05, PROC06,
Exposi	ure assessment (human):	ECETOC TRA (04/2010)
Exposi	ure estimation		d individual and combined (dermal and inhalation) es are below the DNELs (RCR < 1).
Sectio ES	on 4 - Guidance to Downstream User	to evaluate if	he works inside the boundaries set by the
Enviro	nment	Other cond	ove listed conditions the process is deemed safe. itions should only be considered when s or suitable calculations show that the RCR is < 1.
Health		Other cond	ove listed conditions, the process is deemed safe. itions should only be considered when s or suitable calculations show that the RCR is <1.
Addit	ional good practice advice beyond the	e REACH CSA	



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Environment

Not available.

Health

The use of gloves is recommended for this process.



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Annex to the extended Safety Data	Sheet (eSDS)			
Identification of the substance or mixture				
Product definition : Multi-constituent substance				
Product name : 240FR				
Section 1 - Title				
Short title of the exposure scenario	240FR. Foam granules and rebound PUR foam (Industrial)			
ist of use descriptors	Identified use name: 240FR. Foam granules and rebound PUR foam (Industrial)Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC08a, PROC08b, PROC09, PROC14, PROC21			
	Substance supplied to that use in form of: As such Sector of end use: SU03			
	Subsequent service life relevant for that use: No. Environmental Release Category: ERC02, ERC03, ERC04			
	Market sector by type of chemical product: PC32			
Name of contributing environmental scenario and corresponding ERC	ERC02, ERC03, ERC04			
ist of names of contributing worker scenarios and corresponding PROCs	PROC01. PROC02, PROC03, PROC04, PROC05, PROC07, PROC08a, PROC08b, PROC09, PROC19, PROC21			
Section 2 - Exposure controls				
Contributing exposure scenario controlling enviror	nmental exposure for: ERC02, ERC03, ERC04			
Product Characteristics	Liquid. Vapour pressure: < 0.0001 hPa. (25 °C)			
Concentration of substance in mixture or article	≤ 30%			
Physical state	liquid , solid			
Dust	Not applicable.			
Amounts used	Q 1 Rebounding : 802 t/a			
	Q 1 Adheisive pressing : 449 t/a			
Frequency and duration of use Environmental factors not influenced by risk management Other given operational conditions affecting workers exposure	R 1 Recycling : 344 t/a Exposure duration per year: 300 d Local freshwater dilution factor: 10. If receiving surface water flow is (m ³ /d): 18 000. Local marine water dilution factor: 100. Indoor use			
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	Granulation and rebounding should be contained. Granulation machines should be equipped with dust extraction equipment.			
Risk management measures - Water	The waste water has to be directed to a dedicated sewage treatment plant or treated by other suitable techniques.			



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Organisational measures to prevent/limit Not applica release from site		Not applicable	2	
	tions and measures related to municipal ge treatment plant	Size of sewage	e treatment plant (m³/d): 2000	
Condi	tions and measures related to external nent of waste for disposal	Not applicable	2.	
	tions and measures related to external	Not applicable		
recov	ery of waste			
	Contributing exposure scenario contro	lling worker ex	posure for : PROC01. PROC02, PROC03,	
			8b, PROC09, PROC19, PROC21	
	ct Characteristics		ıre: <0.0001 hPa (25 °C)	
	ntration of substance in mixture or article	2-30%		
-	al state	Liquid		
Dust	who would	Dustiness: low		
	nts used ency and duration of use	Not applicable	e ation per year: 230 d	
riequ	ency and duration of use		ation per day: 8 h (full shift).	
Huma	n factors not influenced by risk	-	65 kg (Workers)	
	gement			
	given operational conditions affecting	Indoor use.		
worke	ers exposure	Use at ambier	at ambient temperature	
	ical conditions and measures to control	Local exhaust	ventilation required. (PROC08a, PROC08b,	
	sion from source towards the worker	PROC09, PRO		
Organisational measures to prevent/limit releases, dispersion and exposureOnly properly trained and authorised personnel shall handle the substance. Substance-handling procedures shall be well documented and strictly supervised.		bstance-handling procedures shall be well		
	Conditions and measures related to	personal prote	ction, hygiene and health evaluation	
Perso	nal protection	Wear protecti	Wear protective clothing as described in section 8.	
Wear glov		Wear gloves a	gloves as described in section 8.	
Secti	on 3 - Exposure estimation and refere	ence to its sou	urce	
Webs	ite	Not available		
Expos	ure estimation and reference to its source -	Environment: -	ERC02, ERC03, ERC04.	
Expos	xposure assessment (environment): EUSES (v2.1)		vith setting from EU RAR (2008) Q1, R1	
Expos	-		l exposure concentrations for air, the aquatic and Il environment are below derived PNEC values, CRs < 1.	
Exposure estimation and reference to its source - Workers: - PROC01. PROC02, PROC03, PROC04, PROC05, PROC07, PROC08a, PROC08b, PROC09, PROC19, PROC21				
Expos	Exposure assessment (human): ECETOC TRA (04/2010)		04/2010)	
Exposure estimation The calculated individual and combined (derm exposure values are below the DNELs (RCR < 1)		d individual and combined (dermal and inhalation) es are below the DNELs (RCR < 1).		
Secti ES	on 4 - Guidance to Downstream User	to evaluate i	f he works inside the boundaries set by the	
Enviro	onment	Under the ab	ove listed conditions the process is deemed safe.	
			Continued on next page	



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			tions should only be considered when s or suitable calculations show that the RCR is < 1.
Health	1	Other condi	ove listed conditions, the process is deemed safe. itions should only be considered when s or suitable calculations show that the RCR is <1.
Additional good practice advice beyond the REACH CSA			
Enviro	nment	Not available.	
Health	1	For manual cu	tting or bagging suitable gloves should be used



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Annex to the extended Safety Data Sheet (eSDS)					
Identification of the substance or mixture					
Product definition : Multi-constituer	Product definition : Multi-constituent substance				
Product name : 240FR					
Section 1 - Title					
	240ED Divid foom (Industrial)				
Short title of the exposure scenario List of use descriptors	240FR. Rigid foam (Industrial) Identified use name: 240FR. Rigid foam (Industrial)Process Category: PROC01, PROC02, PROC03, PROC04, PROC05, PROC07, PROC08a, PROC08b, PROC09, PROC19, PROC21 Substance supplied to that use in form of: As such Sector of end use: SU03, SU12 Subsequent service life relevant for that use: No. Environmental Release Category: ERC02, ERC03, ERC05 Market sector by type of chemical product: PC32				
Name of contributing environmental scenario and corresponding ERC	ERC02, ERC03, ERC05				
List of names of contributing worker scenarios and corresponding PROCs	PROC01. PROC02, PROC03, PROC04, PROC05, PROC07, PROC08a, PROC08b, PROC09, PROC19, PROC21				
Section 2 - Exposure controls					
Contributing exposure scenario controlling enviro	nmental exposure for: ERC02, ERC03, ERC05				
Product Characteristics	Liquid. Vapour pressure: < 0.0001 hPa. (25 °C)				
Concentration of substance in mixture or article	≤ 30%				
Physical state	liquid , solid				
Dust	Not applicable.				
Amounts used	C1: 8 983.6 t/a				
Frequency and duration of use Environmental factors not influenced by risk management Other given operational conditions affecting workers exposure	C2: 21 000 t/a Exposure duration per year: 300 d Local freshwater dilution factor: 10. If receiving surface water flow is (m³/d): 18 000. Local marine water dilution factor: 100. Indoor use				
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	The waste water has to be directed to a dedicated sewage treatment plant or treated by other suitable techniques. Local exhaust ventilation required. Floor should be impervious, resisting to liquid and easy to clean.				
Risk management measures - Water	The waste water has to be directed to a dedicated sewage treatment plant or treated by other suitable techniques.				
Organisational measures to prevent/limit	No water is used for equipment cleaning.				



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releas	e from site		
	ions and measures related to municipal e treatment plant	Size of sewage	e treatment plant (m ³ /d): 2000
Condit	ions and measures related to external nent of waste for disposal	General inform	nation on waste disposal see section 13.
Condit	ions and measures related to external ry of waste	Not applicable	
	Contributing exposure scenario contro PROC04, PROC05, PROC07, PR		
Conce Physic Amou Freque	ct Characteristics ntration of substance in mixture or article al state nts used ency and duration of use	<30% Liquid Not applicable Exposure dura	ire: <0.0001 hPa (25 °C) e ition per year: 230 d ition per day: >4 h
manag	n factors not influenced by risk gement		
worke Techn	given operational conditions affecting rs exposure ical conditions and measures to control sion from source towards the worker	Indoor use. Process may involve high temperature. Up to (120 - 140 °C) Local exhaust ventilation required. (PROC08a, PROC08b, PROC09, PROC21)	
-	isational measures to prevent/limit es, dispersion and exposure	Due to the nature of the foam the inherent air bubbles keep volatile compounds in the foam to slow down release. Only properly trained and authorised personnel shall handle the substance. Substance-handling procedures shall be well documented and strictly supervised.	
	Conditions and measures related to	personal protec	ction, hygiene and health evaluation
Persor	nal protection		ve clothing as described in section 8.
		Wear gloves a	s described in section 8.
Respir	atory protection		ying, respiratory protection should be used (type A r 2 and / or particulate filter P2 or P3) as described
Sectio	on 3 - Exposure estimation and refere	nce to its sou	irce
Websi	te	Not available	
Expos	Exposure estimation and reference to its source - Environment: -ERC02, ERC03, ERC05.		
Expos	ure assessment (environment):		with setting from EU RAR (2008) C1, C2. The vere done considering half the amount of CASE cation ES.
Expos	ure estimation	-	exposure concentrations for air, the aquatic and I environment are below derived PNEC values, Rs < 1.
Exposure estimation and reference to its source - Workers: PROC01. PROC02, PROC03, PROC04, PROC05, PROC07, PROC08a, PROC08b, PROC09, PROC19, PROC21			
Expos	ure assessment (human):	ECETOC TRA (04/2010)



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Exposure estimation	The calculated individual and combined (dermal and inhalation) exposure values are below the DNELs (RCR < 1).
Section 4 - Guidance to Downstream User ES	to evaluate if he works inside the boundaries set by the
Environment	Under the above listed conditions the process is deemed safe. Other conditions should only be considered when measurements or suitable calculations show that the RCR is < 1.
Health	Under the above listed conditions, the process is deemed safe. Other conditions should only be considered when measurements or suitable calculations show that the RCR is <1.

Additional good practice advice beyond the REACH CSA

Environment	Not available.
Health	The use of gloves is recommended for this process

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Annex to the extended Safety Data Sheet (eSDS)

Identification of the substance or mixture

Product definition : Multi-constituent substance

Product name : 240FR

Section 1 - Title

Short title of the exposure scenario List of use descriptors	 240FR. CASE - Professional applications, including service life. (Professional) Identified use name: 240FR. CASE - Professional applications, including service life. (Professional). Process Category: PROC05, PROC08a, PROC08b, PROC10, PROC11, PROC13 Substance supplied to that use in form of: As such Sector of end use: SU22 Subsequent service life relevant for that use: Yes. Environmental Release Category: ERC08c, ERC08f Market sector by type of chemical product: PC01, PC09a, PC32 Article category related to subsequent service life: AC01, AC04
Name of contributing environmental scenario and corresponding ERC	-ERC08a, ERC08f. Please refer to ES one-component foam professional use
List of names of contributing worker scenarios and corresponding PROCs	-PROC05, PROC08a, PROC08b, PROC10, PROC11, PROC13

Additional information

ERC only for communication purposes.

Section 2 - Exposure controls

Contributing exposure scenario controlling environmental exposure for: ERC08a, ERC08f. Please refer to ES onecomponent foam-professional use

Contributing exposure scenario controlling worker exposure for : PROC01. PROC02, PROC03, PROC04, PROC05, PROC07, PROC08a, PROC08b, PROC09, PROC19, PROC21

Product Characteristics	Vapour pressure: <0.0001 hPa (25 °C)
Concentration of substance in mixture or article	<30%
Physical state	Liquid
Amounts used	Not applicable
Frequency and duration of use	Exposure duration per year: 230 d
	Exposure duration per day: 8 h (full shift)
Human factors not influenced by risk management	Not available
Other given operational conditions affecting workers exposure	Outdoor setting
Organisational measures to prevent/limit releases, dispersion and exposure	Only properly trained and authorised personnel shall handle the substance. Substance-handling procedures shall be well documented and strictly supervised.

Conditions and measures related to personal protection, hygiene and health evaluation



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Personal protectionWear protective gloves/protective clothing/eye protection/face
protection. Wear respiratory protection. If concentration is > 15
% and aerosols can be formed. See Section 8 for information on
appropriate personal protective equipment.

Section 3 - Exposure estimation and reference to its source

Section 5 - Exposure estimation and reference to its source		
Website	Not available	
Exposure estimation and reference to its source component foam-professional use.	e - Environment:ERC08a, ERC08f. Please refer to ES one-	
Exposure assessment (environment):	Amount has been added to ES one-component foam. (Professional)	
Exposure estimation	The predicted exposure concentrations for air, the aquatic and the terrestrial environment are below derived PNEC values, resulting in RCRs < 1.	
Exposure estimation and reference to its source - Workers: PROC05, PROC08a, PROC08b, PROC10, PROC11, PROC13		
Exposure assessment (human):	ECETOC TRA (04/2010)	
Exposure estimation	The calculated individual and combined (dermal and inhalation) exposure values are below the DNELs (RCR < 1).	
Section 4 - Guidance to Downstream User to evaluate if he works inside the boundaries set by the ES		
Environment	Under the above listed conditions the process is deemed safe. Other conditions should only be considered when measurements or suitable calculations show that the RCR is < 1.	
Health	Under the above listed conditions, the process is deemed safe. Other conditions should only be considered when measurements or suitable calculations show that the RCR is <1.	
Additional good practice advice beyond the	e REACH CSA	
Environment	Not available.	
Health	Not available	



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Annex to the extended Safety Data	Sheet (eSDS)		
Identification of the substance or m	Identification of the substance or mixture		
Product definition : Multi-constituer	it substance		
Product name : 240FR			
Section 1 - Title			
Short title of the exposure scenario List of use descriptors	240FR. Laboratory reagent Identified use name: 240FR Laboratory reagent. Process Category: PROC15 Substance supplied to that use in form of: As such Sector of end use: SU22 Subsequent service life relevant for that use: No. Environmental Release Category: ERC08a, ERC08b Market sector by type of chemical product: PC31		
Name of contributing environmental scenario and corresponding ERC	ERC08a, ERC08b		
List of names of contributing worker scenarios and corresponding PROCs	PROC15		
Section 2 - Exposure controls			
Contributing exposure scenario controlling enviro	nmental exposure for: ERC08a, ERC08b		
Product Characteristics	Liquid. Vapour pressure: < 0.0001 hPa. (25 °C)		
Concentration of substance in mixture or article	100%		
Physical state	liquid		
Dust	Not applicable.		
Amounts used Frequency and duration of use Environmental factors not influenced by risk management Other given operational conditions affecting workers exposure	<1 kg Exposure duration per year: 300 d Not applicable Indoor use. Intermittent release.		
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	The waste water has to be directed to a dedicated sewage treatment plant or treated by other suitable techniques. Local exhaust ventilation required. Floor should be impervious, resisting to liquid and easy to clean.		
Risk management measures - Water Organisational measures to prevent/limit release from site	The waste water has to be directed to a dedicated sewage treatment plant or treated by other suitable techniques. No water is used for equipment cleaning.		
Conditions and measures related to municipal sewage treatment plant	Size of sewage treatment plant (m ³ /d): 2000		



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	ions and measures related to external nent of waste for disposal	General inforn	nation on waste disposal see section 13.
	ions and measures related to external	Not applicable	
recove	ry of waste Contributing exposure scenario contro	lling worker ex	posure for: PROC01, PROC02, PROC03
	PROC04, PROC05, PROC07, PR		
	ct Characteristics ntration of substance in mixture or article	Vapour pressu <30%	re: <0.0001 hPa (25 °C)
	al state	Liquid	
	nts used	Not applicable	
Freque	ency and duration of use	-	tion per year: 230 d
		-	tion per day: 8 h (full shift)
	n factors not influenced by risk gement	Not available	
_	given operational conditions affecting	Indoor use. Int	ermittent contact is expected.
	rs exposure		to the substance should be avoided
	cal conditions and measures to control	Not applicable	
-	sion from source towards the worker		
-	isational measures to prevent/limit es, dispersion and exposure		trained and authorised personnel shall handle the ostance-handling procedures shall be well
Teleas			nd strictly supervised.
	Conditions and measures related to	personal protec	tion, hygiene and health evaluation
Personal protection Wear protective clothing as described in section 8.			
		-	s described in section 8.
Respir	atory protection	-	ying, respiratory protection should be used (type A
			^r 2 and / or particulate filter P2 or P3) as described
		in section 8.	
Sectio	on 3 - Exposure estimation and refere	nce to its sou	rce
Websi	te	Not available	
Exposure estimation and reference to its source - Environment: -ERC08a, ERC08b			RC08a, ERC08b
Exposi	ure assessment (environment):	Qualitative est	imation.
Exposi	ure estimation	No or negligibl	e emissions to the environment
Exposure estimation and reference to its source - Workers: PROC15			
Exposi	ure assessment (human):	ECETOC TRA (0	04/2010) Manual Calculation method
Exposi	ure estimation		l individual and combined (dermal and inhalation) es are below the DNELs (RCR < 1).
Sectio ES	on 4 - Guidance to Downstream User t	to evaluate if	he works inside the boundaries set by the
Enviro	nment	Other condi	ove listed conditions the process is deemed safe. tions should only be considered when s or suitable calculations show that the RCR is < 1.
Health		Gloves should	be worn. Wear eye protection



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Additional good practice advice beyond the REACH CSA

Environment

Not available.

Health

Not applicable.

Conditions and measures related to municipal

sewage treatment plant



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Annex to the extended Safety Data Sheet (eSDS)				
Identification of the substance or mixture				
Product definition : Multi-constituer	at substance			
Product name : 240FR				
Section 1 - Title				
Short title of the exposure scenario List of use descriptors	240FR. One-Component foam, including Service Life. (Professional) Identified use name: 240FR. One-Component foam, including Service Life. (Professional) Process Category: PROC10, PROC11, PROC21 Substance supplied to that use in form of: As such			
	Sector of end use: SU22 Subsequent service life relevant for that use: Yes. Environmental Release Category: ERC10a, ERC11a			
Name of contributing environmental scenario and corresponding ERC	ERC10a, ERC11a			
List of names of contributing worker scenarios and corresponding PROCs	-PROC10, PROC11, PROC21			
Section 2 - Exposure controls				
Contributing exposure scenario controlling enviro	nmental exposure for: ERC10a, ERC11a			
Product Characteristics	Liquid. Vapour pressure: < 0.0001 hPa. (25 °C)			
Concentration of substance in mixture or article	≤ 30%			
Physical state	liquid , solid			
Dust	Not applicable.			
Amounts used Frequency and duration of use Environmental factors not influenced by risk management Other given operational conditions affecting workers exposure	2 135 t/a Exposure duration per year: 365 d Local freshwater dilution factor: 10. If receiving surface water flow is (m ³ /d): 18 000. Local marine water dilution factor: 100. Indoor use			
Technical on-site conditions and measures to reduce or limit discharges, air emissions and releases to soil	The waste water has to be directed to a dedicated sewage treatment plant or treated by other suitable techniques. Local exhaust ventilation required. Floor should be impervious, resisting to liquid and easy to clean.			
Risk management measures - Water Organisational measures to prevent/limit release from site	The waste water has to be directed to a dedicated sewage treatment plant or treated by other suitable techniques. No water is used for equipment cleaning.			

Size of sewage treatment plant (m^3/d): 2000

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	ions and measures related to external ient of waste for disposal	General inform	nation on waste disposal see section 13.	
Condit	ions and measures related to external ery of waste	Not applicable		
	Contributing exposure scenario contro	lling worker ex	posure for : PROC10, PROC11, PROC21	
Produc	ct Characteristics	Vapour pressu	re: <0.0001 hPa (25 °C)	
Conce	ntration of substance in mixture or article	<30%	, , , , , , , , , , , , , , , , , , ,	
Physic	al state	Liquid		
-	nts used	Not applicable	3	
	ency and duration of use		ition per year: 230 d	
incque			ition per day: 8 h(full shift)	
Luma	a factors not influenced by rick		55 kg (Workers)	
	n factors not influenced by risk	Bouy weight.	JJ Kg (WOIKEIS)	
Other	ement given operational conditions affecting rs exposure	Outdoor settir	ng	
Techni	cal conditions and measures to control sion from source towards the worker	Not applicable	2	
Organi	sational measures to prevent/limit es, dispersion and exposure	Not applicable	e	
Conditions and measures related to personal protection, hygiene and health evaluation				
Persor	al protection	respiratory pr	tive clothing as described in section 8. Wear otection. (PROC11) If concentration is > 15 % and e formed. Wear protective gloves.	
Sectio	on 3 - Exposure estimation and refere			
Websi		Not available		
Exposu	are estimation and reference to its source - I	Environment: -	ERC10a, ERC11a	
Exposı	ure assessment (environment):		with setting from EU RAR (2008) C1, C2. The vere done considering half the amount of CASE cation ES.	
Exposı	ure estimation		exposure concentrations for air, the aquatic and I environment are below derived PNEC values, Rs < 1.	
Exposı	re estimation and reference to its source -	Workers: -PROC	C10, PROC11, PROC21	
Exposu	are assessment (human):	ECETOC TRA (04/2010) and ConsExpo 4.1	
Εχροςι	ure estimation		d individual and combined (dermal and inhalation) es are below the DNELs (RCR < 1).	
Sectio ES	on 4 - Guidance to Downstream User t	to evaluate if	he works inside the boundaries set by the	
Enviro	nment	Other cond	ove listed conditions the process is deemed safe. itions should only be considered when s or suitable calculations show that the RCR is < 1.	
Health		Other cond	ove listed conditions, the process is deemed safe. itions should only be considered when s or suitable calculations show that the RCR is <1.	



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Additional good practice advice beyond the REACH CSA

Environment

Not applicable.

Health

Not applicable



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Annex to the extended Safety Data Sheet (eSDS)

Identification of the substance or mixture

Product definition : Multi-constituent substance

Product name : 240FR

Section 1 - Title

Short title of the exposure scenario List of use descriptors	240FR. Rigid foam (Professional) Identified use name: 240FR. Rigid foam (Professional)Process Category: PROC05, PROC08a, PROC10, PROC11, PROC21 Substance supplied to that use in form of: As such Sector of end use: SU22 Subsequent service life relevant for that use: Yes. Environmental Release Category: ERC08c, ERC08f Article category related to subsequent service life: AC01, AC02, AC13
Name of contributing environmental scenario and corresponding ERC	Not relevant
List of names of contributing worker scenarios	PROC05, PROC08a, PROC10, PROC11, PROC21

Section 2 - Exposure controls

and corresponding PROCs

Contributing exposure scenario controlling environmental exposure for: not relevant

Contributing exposure scenario controlling worker exposure for : PROC05, PROC08a, PROC10, PROC11, PROC21

Product Characteristics Concentration of substance in mixture or article Physical state	Vapour pressure: <0.0001 hPa (25 °C) <30% Liquid
Amounts used	Not applicable
Frequency and duration of use	Exposure duration per year: 265 d
	Exposure duration per day: 4-12 h
Human factors not influenced by risk management	Not available
Other given operational conditions affecting workers exposure	Indoor setting / Outdoor setting
Organisational measures to prevent/limit releases, dispersion and exposure	Due to the nature of the foam the inherent air bubbles keep volatile compounds in the foam to slow down release. Only properly trained and authorised personnel shall handle the substance. Substance-handling procedures shall be well documented and strictly supervised.

Conditions and measures related to personal protection, hygiene and health evaluation

Personal protection

Wear protective clothing as described in section 8. Wear gloves as described in section 8. (PROC05, PROC08a, PROC10, PROC21) Wear respiratory protection. (PROC11) If concentration is > 15 % and aerosols can be formed.



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See Section 8 for information on appropriate personal protective

equipment.

Section 3 - Exposure estimation and reference to its source

Health

·				
Website	Not available			
Exposure estimation and reference to its source - Environment: -not relevant.				
Exposure assessment (environment):	Not applicable. No or negligible emissions to the environment.			
Exposure estimation	Not applicable.			
Exposure estimation and reference to its source - Workers: PROC05, PROC08a, PROC10, PROC11, PROC21				
Exposure assessment (human):	ECETOC TRA (04/2010)			
Exposure estimation	The calculated individual and combined (dermal and inhalation) exposure values are below the DNELs (RCR < 1).			
Section 4 - Guidance to Downstream User to evaluate if he works inside the boundaries set by the ES				
Environment	Non applicable			
Health	Under the above listed conditions, the process is deemed safe. Other conditions should only be considered when measurements or suitable calculations show that the RCR is <1.			
Additional good practice advice beyond the REACH CSA				
Environment	Non applicable.			

Non applicable



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hort title of the exposure scenario st of use descriptors st of use descriptors st of use descriptors service life. (Consumer) Substance supplied to that use in form of: As such Sector of end use: SU21 Subsequent service life relevant for that use: Yes. Environmental Release Category: ERC10a, ERC11a Market sector by type of chemical product: PC32 ame of contributing environmental scenario or chemical product: PC32 ame of contributing senarios one-component foam - Consumer use, including service life ection 2 - Exposure controls ontributing exposure scenario controlling environmental exposure for: - ERC10a, ERC11a roduct Characteristics including service or article and use: SU21 ame of contributing environmental exposure for: - ERC10a, ERC11a roduct Characteristics including service life requency and duration of use contributing exposure scenario controlling consumer exposure for: - ERC10a, ERC11a roduct Characteristics including service life roduct Characteristics vapour pressure: <0.0001 hPa (25 °C) oncentration of substance in mixture or article 365 d/a Contributing exposure scenario controlling consumer exposure for: One-component foam - Consumer use, including service life roduct Characteristics vapour pressure: <0.0001 hPa (25 °C) oncentration of substance in mixture or article <30% hysical state ther given operational conditions affecting onkies exposure frequency 1/5 a uman factors not influenced by risk management ther given operational conditions affecting onditions and measures related to information doel behavioural advice to consumers Conditions and measures related to personal protection, hygiene and health evaluation ersonal protection ersonal protection wear gloves as described in section 8. ection 3 - Exposure estimation and reference to its source /ebsite Not available				
Product definition : Multi-constituent substance Product name : 240FR ection 1 - Title hort title of the exposure scenario st of use descriptors arrive life. (Consumer) Substance supplied to that use in form of: As such Sector of end use: SU21 Subsequent service life relevant for that use: Yes. Environmental Release Category: EACIDa, ERC1Da, ERC1Da nd corresponding ERC lealth Contributing environmental scenario or chemical product: PC32 lame of contributing scenarios one-component foam - Consumer use, including service life ection 2 - Exposure controls ontributing exposure scenario controlling environmental exposure for :- ERC10a, ERC11a mounts used requency and duration of use requency and duration of use requency and duration of use tate mounts used Non applicable requency and duration of use tate Mot applicable requency and duration of use Exposure ferequency 1/5 a Human factors not influenced by risk management there given operational conditions affecting Indoor setting / Outdoor use moritise aposure scelated to information and behavioural advice to consumers Conditions and measures related to information and behavioural advice to consumers Conditions and measures related to personal protection, hygiene and health evaluation ersonal protection Wear gloves as described in section 8. ection 3 - Exposure estimation and reference to its source	Annex to the extended Safety Data	Sheet (eSDS)		
Product name : 240FR ection 1 - Title hort title of the exposure scenario 240FR. One-component foam, including service life. (Consumer) service life. (Consumer) ist of use descriptors Substance supplied to that use in form of: As such Sector of end use: SU21 Subsequent service life relevant for that use: Yes. Environmental Release Category: ENCIDa, ERC11a nd corresponding ERC One-component foam - Consumer use, including service life ealth Contributing scenarios One-component foam - Consumer use, including service life return 2 - Exposure controls One-component foam - Consumer use, including service life ontributing exposure scenario controlling environmental exposure for: - ERC10a, ERC11a Indicater States requency and duration of use 20% mounts used Non applicable requency and duration of use 30% mounts used Non applicable requency and duration of use 400 pour pressure: <0.0001 hPa (25 °C)	Identification of the substance or mixture			
ection 1 - Titlehort title of the exposure scenario240FR. One-component foam, including service life. (Consumer) service life. (Consumer) Substance supplied to that use in form of: As such Sector of end use: SU21 Subsequent service life relevant for that use: Yes. Environmental Release Category: ERC10a, ERC11a Market sector by type of chemical product: PC32ame of contributing environmental scenario- ERC10a, ERC11and corresponding ERCone-component foam - Consumer use, including service lifeeetito 2 - Exposure controlsone-component foam - Consumer use, including service lifeoutch titing exposure scenario controlling environmental exposure for: - ERC10a, ERC11aroduct CharacteristicsLiquid Vapour pressure: <0.0001 hPa (25 °C) oncentration of substance in mixture or article a 365 d/acontributing exposure scenario controlling environmer exposure for: - One-component foam - Consumer use, including service liferoduct CharacteristicsVapour pressure: <0.0001 hPa (25 °C) oncentration of substance in mixture or article including service liferoduct CharacteristicsVapour pressure: <0.0001 hPa (25 °C) oncentration of substance in mixture or article including service liferoduct CharacteristicsVapour pressure: <0.0001 hPa (25 °C) oncentration of substance in mixture or article including service liferequency and duration of useExposure frequency 1/5 auman factors not influenced by risk managementBody weight: 65 kg inanagementrequency and duration of useConsumers should vent the room after application ontions and measures related to information ondows should vent the room after application indicions and measu	Product definition : Multi-constituer	nt substance		
hort title of the exposure scenario hort title of the exposure scenario ist of use descriptors ist	Product name : 240FR			
Identified use name: 240FR. One-component foam, including service life. (Consumer)Subsequent service life. (Consumer)Subsequent service life relevant for that use: Nes. Environmental Release Category: ERC10a, ERC11a Market sector by type of chemical product: PC32Iame of contributing environmental scenario- ERC10a, ERC11aof corresponding ERCOne-component foam - Consumer use, including service lifeeath Contributing scenariosOne-component foam - Consumer use, including service lifeection 2 - Exposure controls- ERC10a, ERC11aontributing exposure scenario controlling environmental exposure for: - ERC10a, ERC11amoduct characteristicsLiquid Vapour pressure: <0.0001 hPa (25 °C)	Section 1 - Title			
Identified use name: 240FR. One-component foam, including service life. (Consumer) Subsequent service life. (Consumer) Subsequent service life. (Consumer) Subsequent service life. (Consumer) Subsequent service life relevant for that use: Yes. Environmental Release Category: ERC10a, ERC11a Market sector by type of chemical product: PC32lame of contributing environmental scenario nd corresponding ERC- ERC10a, ERC11alealth Contributing scenariosOne-component foam - Consumer use, including service lifeection 2 - Exposure controls- ERC10a, ERC10a, ERC11aontributing exposure scenario controlling environmental exposure for: - ERC10a, ERC11amoduct characteristicsLiquid Vapour pressure: <0.0001 hPa (25 °C)	Short title of the exposure scenario	240EB One-component foam including service life (Consumer)		
use: SU21 Subsequent service life relevant for that use: Yes. Environmental Release Category: ERC10a, ERC11a Market sector by type of chemical product: PC32lame of contributing environmental scenario and corresponding ERC- ERC10a, ERC11alealth Contributing scenariosOne-component foam - Consumer use, including service lifeection 2 - Exposure controlsLiquid Vapour pressure: <0.0001 hPa (25 °C) oncentration of substance in mixture or article 30% Non applicable requercy and duration of use365 d/arequercy and duration of use365 d/aContributing exposure scenario controlling envirce life troduct CharacteristicsVapour pressure: <0.0001 hPa (25 °C) oncentration of substance in mixture or article a0% Non applicable trequercy and duration of use365 d/arequercy and duration of use365 d/aContributing service life to applicable terquercy and duration of useVapour pressure: <0.0001 hPa (25 °C) oncentration of substance in mixture or article softer service lifereduet CharacteristicsVapour pressure: <0.0001 hPa (25 °C) oncentration of substance in mixture or article softer service lifereduet CharacteristicsVapour pressure: <0.0001 hPa (25 °C) oncentration of substance in mixture or article softer service lifereduet CharacteristicsVapour pressure: <0.0001 hPa (25 °C) oncentration of substance in mixture or article softer service lifereduet CharacteristicsVapour pressure: <0.0001 hPa (25 °C) oncentration of substance in mixture or article softer service lifereduet CharacteristicsContributing service lifereduet CharacteristicsContributing service life <td>List of use descriptors</td> <td>Identified use name: 240FR. One-component foam, including service life. (Consumer)</td>	List of use descriptors	Identified use name: 240FR. One-component foam, including service life. (Consumer)		
Release Category: ERC10a, ERC11a Market sector by type of chemical product: PC32Iame of contributing environmental scenario- ERC10a, ERC11aind corresponding ERCOne-component foam - Consumer use, including service lifeealth Contributing scenariosOne-component foam - Consumer use, including service lifecontributing exposure scenario controlling environmental exposure for: - ERC10a, ERC11aonduct CharacteristicsLiquid Vapour pressure: <0.0001 hPa (25 °C)				
and corresponding ERC lealth Contributing scenarios One-component foam - Consumer use, including service life ection 2 - Exposure controls Liquid Vapour pressure; <0.0001 hPa (25 °C)		Release Category: ERC10a, ERC11a Market sector by type of		
ection 2 - Exposure controls ontributing exposure scenario controlling environmental exposure for: - ERC10a, ERC11a roduct Characteristics incentration of substance in mixture or article mounts used requency and duration of use roduct Characteristics roduct Characteristics roduct Characteristics vapour pressure: <0.0001 hPa (25 °C) oncentration of substance in mixture or article roduct Characteristics vapour pressure: <0.0001 hPa (25 °C) oncentration of substance in mixture or article requency and duration of use requency and duration of use tiquid mounts used mounts used mount	Name of contributing environmental scenario and corresponding ERC	- ERC10a, ERC11a		
ontributing exposure scenario controlling environmental exposure for: - ERC10a, ERC11aroduct CharacteristicsLiquid Vapour pressure: <0.0001 hPa (25 °C)	Health Contributing scenarios	One-component foam - Consumer use, including service life		
roduct CharacteristicsLiquid Vapour pressure: <0.0001 hPa (25 °C)oncentration of substance in mixture or article30%mounts usedNon applicablerequency and duration of use365 d/aContributing exposure scenario controlling consumer exposure for : One-component foam - Consumer use, including service liferoduct CharacteristicsVapour pressure: <0.0001 hPa (25 °C)	Section 2 - Exposure controls			
oncentration of substance in mixture or article 30% mounts used Non applicable requency and duration of use 365 d/a Contributing exposure scenario controlling consumer exposure for : One-component foam - Consumer use, including service life roduct Characteristics Vapour pressure: <0.0001 hPa (25 °C)		-		
requency and duration of use365 d/aContributing exposure scenario controlling consumer exposure for : One-component foam - Consumer use, including service liferoduct CharacteristicsVapour pressure: <0.0001 hPa (25 °C)oncentration of substance in mixture or article<30%hysical stateLiquidmounts usedNot applicablerequency and duration of useExposure frequency 1/5 auman factors not influenced by riskBody weight: 65 kganagementIndoor setting / Outdoor useorkers exposureConditions and measures related to information nd behavioural advice to consumersconditions and measures related to information and personal protectionWear gloves as described in section 8.ection 3 - Exposure estimation and refererce to its sourceNot available	Concentration of substance in mixture or article			
Contributing exposure scenario controlling consumer exposure for : One-component foam - Consumer use, including service liferoduct CharacteristicsVapour pressure: <0.0001 hPa (25 °C)	Amounts used			
including service liferoduct CharacteristicsVapour pressure: <0.0001 hPa (25 °C)				
roduct CharacteristicsVapour pressure: <0.0001 hPa (25 °C)oncentration of substance in mixture or article hysical state mounts used<30%				
hysical stateLiquidmounts usedNot applicablerequency and duration of useExposure frequency 1/5 aluman factors not influenced by riskBody weight: 65 kganagementIndoor setting / Outdoor useordier sexposureConsumers should vent the room after applicationconditions and measures related to information nd behavioural advice to consumersConsumers should vent the room after applicationersonal protectionWear gloves as described in section 8.ection 3 - Exposure estimation and referererNot available	Product Characteristics	-		
Immounts usedNot applicablerequency and duration of useExposure frequency 1/5 aluman factors not influenced by riskBody weight: 65 kghanagementIndoor setting / Outdoor usewhere given operational conditions affectingIndoor setting / Outdoor usevorkers exposureConsumers should vent the room after applicationonditions and measures related to informationConsumers should vent the room after applicationmassesConditions and measures related to personal protection, hygiene and health evaluationersonal protectionWear gloves as described in section 8.ection 3 - Exposure estimation and reference to its sourceNot available	Concentration of substance in mixture or article	<30%		
requency and duration of useExposure frequency 1/5 aluman factors not influenced by risk hanagementBody weight: 65 kgther given operational conditions affecting orkers exposure onditions and measures related to information nd behavioural advice to consumersIndoor setting / Outdoor useConditions and measures related to information nd behavioural advice to consumersConsumers should vent the room after applicationersonal protectionWear gloves as described in section 8.ection 3 - Exposure estimation and refere- vebsiteNot available	Physical state			
Juman factors not influenced by riskBody weight: 65 kghanagementIndoor setting / Outdoor usebther given operational conditions affectingIndoor setting / Outdoor usevorkers exposureConsumers should vent the room after applicationonditions and measures related to informationConsumers should vent the room after applicationnd behavioural advice to consumersWear gloves as described in section 8.ersonal protectionWear gloves as described in section 8.ection 3 - Exposure estimation and reference to its sourceNot available	Amounts used			
hanagement Indoor setting / Outdoor use behavioural advice to consumers Conditions and measures related to information conditions and measures related to information Consumers should vent the room after application conditions and measures related to personal protection, hygiene and health evaluation ersonal protection Wear gloves as described in section 8. ection 3 - Exposure estimation and reference to its source Not available	Frequency and duration of use	Exposure frequency 1/5 a		
vorkers exposure onditions and measures related to information nd behavioural advice to consumers Consumers should vent the room after application Conditions and measures related to personal protection, hygiene and health evaluation ersonal protection Wear gloves as described in section 8. ection 3 - Exposure estimation and reference to its source Vebsite Not available	Human factors not influenced by risk management	Body weight: 65 kg		
onditions and measures related to information nd behavioural advice to consumersConsumers should vent the room after applicationConditions and measures related to personal protection, hygiene and health evaluationersonal protectionWear gloves as described in section 8.ection 3 - Exposure estimation and reference to its sourceNot available	Other given operational conditions affecting workers exposure	Indoor setting / Outdoor use		
ersonal protectionWear gloves as described in section 8.ection 3 - Exposure estimation and reference to its sourceVebsiteNot available	Conditions and measures related to information and behavioural advice to consumers	Consumers should vent the room after application		
ection 3 - Exposure estimation and reference to its source Vebsite Not available	Conditions and measures related to	personal protection, hygiene and health evaluation		
Vebsite Not available	Personal protection	Wear gloves as described in section 8.		
	Section 3 - Exposure estimation and refere	ence to its source		
xposure estimation and reference to its source - Environment: - ERC10a, ERC11a	Website	Not available		
	Exposure estimation and reference to its source -	Environment: - ERC10a, ERC11a		



According to Regulation (EC) No 1907/2006 (REACH)		Sheet consists 35 of 37 pages Printing date: January 11, 2016 Version: 3.0-EN Revision date: January 11, 2016		
Exposure assessment (environment): Qualitative		Qualitative est	timation / Expert judgement	
the terres		the terrestria	e predicted exposure concentrations for air, the aquatic and e terrestrial environment are below derived PNEC values, sulting in RCRs < 1.	
Exposure assessment (environment): Not applica		Not applicable	e. No or negligible emissions to the environment.	
Exposure estimation Not applie		Not applicable	2.	
Exposure estimation and reference to its source - Consumers: One-component foam – Consumer use, including service life			One-component foam – Consumer use, including	
Expos	Exposure assessment (human): ConsExpo 4.1			
Expos	ure estimation	The calculated individual and combined (dermal and inhalation) exposure values are below the DNELs (RCR < 1).		
Section 4 - Guidance to Downstream User to evaluate if he works inside the boundaries set by the ES				
Enviro	onment	Under the abo	ove listed conditions the process is deemed safe.	
Health Under the above listed of		ove listed conditions the process is deemed safe.		
Addit	ional good practice advice beyond the	e REACH CSA		
Enviro	onment	Non applicable	e.	
Health Non applica		Non applicable	e	



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Annex to the extended Safety Data Sheet (eSDS)				
Identification of the substance or mixture				
Product definition : Multi-constituent substance				
Product name : 240FR				
Section 1 - Title				
Short title of the exposure scenario	240FR. Rigid foam - Service Life (Consumer))			
List of use descriptors	Identified use name: 240FR. Rigid foam - Service Life (Consumer) Substance supplied to that use in form of: As such Sector of end use: SU21 Subsequent service life relevant for that use: Yes. Environmental Release Category: ERC10a, ERC11a Article category related to subsequent service life: AC01, AC02, AC07, AC11, AC13			
Name of contributing environmental scenario and corresponding ERC	- ERC10a, ERC11a			
Health Contributing scenarios	Rigid foam - Service life			
Section 2 - Exposure controls				
Contributing exposure scenario controlling enviro Product Characteristics Amounts used Frequency and duration of use Other operational conditions of use affecting	nmental exposure for: - ERC10a, ERC11a Liquid Vapour pressure: <0.0001 hPa (25 °C) Non relevant 365 d/a Exposure duration per day 4-12 h. Indoor use. Substance is securely encapsulated in matrix.			
Contributing exposure scenario controlling consumer exposure for : Rigid foam - service lifeProduct CharacteristicsVapour pressure: <0.0001 hPa (25 °C)				
Conditions and measures related to personal protection, hygiene and health evaluation				
Personal protection	Wear gloves as described in section 8.			
Section 3 - Exposure estimation and reference to its source				
Website	Not available			
Exposure estimation and reference to its source - Environment: - ERC10a, ERC11a				
Exposure assessment (environment):	Qualitative estimation / Expert judgement			
Exposure estimation	The predicted exposure concentrations for air, the aquatic and the terrestrial environment are below derived PNEC values, resulting in RCRs < 1.			
Exposure assessment (environment):	Not applicable. No or negligible emissions to the environment.			
Exposure estimation	Not applicable.			
Exposure estimation and reference to its source - Consumers: Rigid foam - service life				



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Exposure assessment (human):		A chamber test was performed.		
Exposure estimation No consu		No consumer	exposure detected.	
Section 4 - Guidance to Downstream User to evaluate if he works inside the boundaries set by the ES				
Enviro	onment	Under the above listed conditions the process is deemed safe.		
Healt	Under the above listed conditions the process is deemed safe.			

Additional good practice advice beyond the REACH CSA

Environment

Health

Non applicable.

Non applicable

End of safety data sheet