



SAFETY DATA SHEET FOSROC POLYUREA WPT PART B

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

1.1. Product identifier

Product name FOSROC POLYUREA WPT PART B

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

Identified uses Amine component of two part polyurea system.

1.3. Details of the supplier of the safety data sheet

Supplier Fosroc Idea Yapi Kimyasallari San. Ve Tic. A.S.
Aydinevler mah. Sanayi cad. Demirtas Plaza No:13 Kat:3 34854
Maltepe ISTANBUL
TURKEY
+90 216 463 6776
enguiryturkey@fosroc.com

1.4. Emergency telephone number

Emergency telephone +90 262 728 15 05

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 STOT RE 2 - H373

Environmental hazards Aquatic Chronic 2 - H411

Human health See Section 11 for additional information on health hazards.

Environmental The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Hazard pictograms



Signal word

Danger

Hazard statements

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements	<p>P260 Do not breathe vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P391 Collect spillage.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
Contains	<p>POLYETHERDIAMINE, DIETHYLMETHYLBENZENEDIAMINE, 4,4'-METHYLENEBIS(2,6-DIETHYLANILINE)</p>
Supplementary precautionary statements	<p>P270 Do not eat, drink or smoke when using this product.</p> <p>P273 Avoid release to the environment.</p> <p>P301+P312 IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTER/ doctor.</p> <p>P314 Get medical advice/ attention if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P363 Wash contaminated clothing before reuse.</p>

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

POLYETHERDIAMINE	25 - 75%
CAS number: 9046-10-0	
Classification	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
Aquatic Chronic 3 - H412	
DIETHYLMETHYLBENZENEDIAMINE	10 - 25%
CAS number: 68479-98-1 EC number: 270-877-4	
M factor (Chronic) = 1	
Classification	
Acute Tox. 4 - H302	
Acute Tox. 4 - H312	
Eye Irrit. 2 - H319	
STOT RE 2 - H373	
Aquatic Chronic 1 - H410	

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POLYETHER POLYOL	2.5 - 10%
CAS number: 25214-63-5	
Classification	Classification (67/548/EEC or 1999/45/EC)
Eye Irrit. 2 - H319	-
4,4'-METHYLENEBIS(2,6-DIETHYLANILINE)	2.5 - 10%
CAS number: 13680-35-8	EC number: 237-185-4
Classification	
Acute Tox. 4 - H302	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Inhalation	Keep affected person under observation. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Promptly get affected person to drink large volumes of water to dilute the swallowed chemical. Keep affected person under observation. Get medical attention if any discomfort continues.
Skin contact	Remove affected person from source of contamination.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. If person becomes uncomfortable seek hospital and bring these instructions.

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

General information	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
Inhalation	Low volatility makes inhalation unlikely at ambient temperature.
Ingestion	Harmful if swallowed.
Skin contact	Causes severe skin burns and eye damage.
Eye contact	Causes serious eye irritation.

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

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use foam, carbon dioxide, dry powder or water fog to extinguish.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	Not known.
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Hazardous combustion products Carbon dioxide (CO₂). Carbon monoxide (CO). Nitrous gases (NO_x).

5.3. Advice for firefighters

Protective actions during firefighting In case of fire: Fight fire from safe distance or protected location. Use water to keep fire exposed containers cool and disperse vapours. Avoid the spillage or runoff entering drains, sewers or watercourses. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk.

Special protective equipment for firefighters Wear chemical protective suit. Use air-supplied respirator, gloves and protective goggles.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Contain and absorb spillage with sand, earth or other non-combustible material. Take care as floors and other surfaces may become slippery. Collect and place in suitable waste disposal containers and seal securely.

6.4. Reference to other sections

Reference to other sections Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Good personal hygiene procedures should be implemented. Wear suitable protective equipment for prolonged exposure and/or high concentrations of vapours, spray or mist.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store frost free in closed original container.

Storage class Chemical storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Ingredient comments No exposure limits known for ingredient(s).

POLYETHERDIAMINE (CAS: 9046-10-0)

DNEL Industry/Professional, Workers - ; Long term systemic effects: 2.5 mg/kg bw/day

PNEC - Fresh water; 0.015 mg/l

DIETHYLMETHYLBENZENEDIAMINE (CAS: 68479-98-1)

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DNEL	General population - Oral; Long term systemic effects: 0.1 mg/kg bw/day General population - Dermal; Long term systemic effects: 1 mg/kg bw/day General population - Inhalative; Long term systemic effects: 0.1 mg/m ³ Industrial - Dermal; Long term systemic effects: 1 mg/kg bw/day Industrial - Inhalative; Long term systemic effects: 0.13 mg/m ³
PNEC	- Fresh water; 0.001 mg/L - STP; 17 mg/L - Sediment (Freshwater); 0.029 mg/kg - Sediment (Marinewater); 0.003 mg/kg - Soil; 5.6 µg/kg

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Wear tight-fitting, chemical splash goggles or face shield.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Polyvinyl chloride (PVC). Nitrile rubber.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.

Hygiene measures

When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes wet or contaminated.

Respiratory protection

Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Check that the respirator fits tightly and the filter is changed regularly. Wear a respirator fitted with the following cartridge: Combination filter, type A2/P3.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Yellow.
Odour	Characteristic.
Odour threshold	Not determined.
pH	Not determined.
Melting point	Not determined.
Initial boiling point and range	>250°C @ 101 kPa
Flash point	141°C
Evaporation rate	Not determined.
Evaporation factor	Not determined.

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Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Other flammability	Not applicable.
Vapour pressure	0.1 hPa @ 20°C
Vapour density	Not determined.
Relative density	1.00 @ 20°C
Bulk density	Not applicable.
Solubility(ies)	Immiscible with water.
Partition coefficient	Not applicable.
Auto-ignition temperature	420°C
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information Not available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react with the product: Acids.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Acids. Alkalis. Oxidising materials.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid Strong oxidising agents. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 1,818.18

Acute toxicity - dermal

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ATE dermal (mg/kg)	5,500.0
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	Not sensitising.
General information	
	Extensive use of the product in areas with inadequate ventilation may result in the accumulation of hazardous vapour concentrations.
Inhalation	Low volatility makes inhalation unlikely at ambient temperature.
Ingestion	Harmful if swallowed.
Skin contact	Causes severe skin burns and eye damage.
Eye contact	Causes serious eye irritation.
Acute and chronic health hazards	May cause damage to organs through prolonged or repeated exposure.
Route of exposure	Inhalation Skin and/or eye contact
Target organs	Eyes Skin Respiratory system, lungs

Toxicological information on ingredients.

DIETHYLMETHYLBENZENEDIAMINE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 738.0

Species Rat

Notes (oral LD₅₀) LD₅₀ 738 mg/kg, Oral, Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.0

Species Rat

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg bw, Dermal, Rat

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC50 > 2.45 mg/L, Inhalation, Rat

Germ cell mutagenicity

Genotoxicity - in vitro Ames test: Positive. Chromosome aberration: Negative.

Genotoxicity - in vivo Chromosome aberration, OECD 474: Negative.

4,4'-METHYLENEBIS(2,6-DIETHYLANILINE)

Acute toxicity - oral

ATE oral (mg/kg) 500.0

SECTION 12: Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

12.1. Toxicity

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Toxicity The product contains a substance which is harmful to aquatic organisms.

Ecological information on ingredients.

POLYETHERDIAMINE

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 96 hours: >100 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 15 mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC ₅₀ , 72 hours: 135 mg/l, Algae

DIETHYLMETHYLBENZENEDIAMINE

Acute aquatic toxicity

Acute toxicity - fish	LC ₅₀ , 48 hour: 200 mg/L, Leuciscus idus (Golden orfe)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.5 mg/L, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: 104 mg/l, Desmodosmus subspicatus

Chronic aquatic toxicity

M factor (Chronic)	1
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12.2. Persistence and degradability

Persistence and degradability The product has not proven to be degradable under anaerobic conditions.

12.3. Bioaccumulative potential

Partition coefficient Not applicable.

12.4. Mobility in soil

Mobility The product is insoluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

POLYETHERDIAMINE

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

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Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID)	2735
UN No. (IMDG)	2735
UN No. (ICAO)	2735
UN No. (ADN)	2735

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS POLYETHERDIAMINE, DIETHYLMETHYLBENZENEDIAMINE)
Proper shipping name (IMDG)	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS POLYETHERDIAMINE, DIETHYLMETHYLBENZENEDIAMINE)
Proper shipping name (ICAO)	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS POLYETHERDIAMINE, DIETHYLMETHYLBENZENEDIAMINE)
Proper shipping name (ADN)	AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS POLYETHERDIAMINE, DIETHYLMETHYLBENZENEDIAMINE)

14.3. Transport hazard class(es)

ADR/RID class	8
ADR/RID classification code	C7
ADR/RID label	8
IMDG class	8
ICAO class/division	8
ADN class	8

Transport labels



14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ICAO packing group	II
ADN packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

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IMDG Code segregation group	18. Alkalis
EmS	F-A, S-B
ADR transport category	2
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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

National regulations Kingdom of Saudi Arabia General Authority of Meteorology & Environmental Regulation reference General Environmental Regulations and Rules for Implementation (Issue: October 15th, 2001)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	DNEL: Derived No Effect Level. PNEC: Predicted No Effect Concentration. PBT: Persistent, Bioaccumulative and Toxic substance. vPvB: Very Persistent and Very Bioaccumulative. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
General information	Only trained personnel should use this material.
Revision comments	This is the first issue.
Revision date	02.06.2023
Revision	1
SDS number	PRD00115
Hazard statements in full	H302 H312 Harmful if swallowed. H314 Harmful in contact with skin. H318 Causes severe skin burns and eye damage. H319 Causes serious eye damage. H373 Causes serious eye irritation. H410 May cause damage to organs through prolonged or repeated exposure. H411 Very toxic to aquatic life with long lasting effects. H412 Toxic to aquatic life with long lasting effects.

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.