

Product name

PU F400



Anton Vorek s.r.o.

grouting packers, equipment, products & materials

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

1.1 Product identifier:

PU F400

UFI: **ES00-C0QY-1009-SU1Y**

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

Relevant identified use: Product for construction chemistry.
Recommended use: For industrial and professional use only

1.3 Details of the supplier of the safety data sheet:

Anton Vorek s.r.o.
Malá Strana 234
742 01 Suchdol nad Odrou
+420 556 720 390
info@vorek.cz

1.4 Emergency telephone number:

+32 70 245 245; +49 180 2273-112

SECTION 2: Hazards identification:

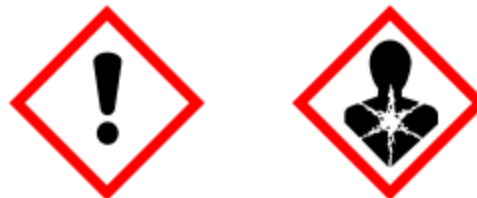
2.1 Classification of the substance or mixture:

Classification of the substance or mixture in accordance with regulation (EU) 1272/2008:

H315 Skin Irrit. 2, H317 Skin Sens. 1, H319 Eye Irrit. 2, H334 Resp. Sens. 1, H351 Carc. 2, H335 STOT SE 3, H373 STOT RE 2

2.2 Label element:

Pictograms:



Signal word:

Danger

Hazard statements:

H315 Skin Irrit. 2

H317 Skin Sens. 1

H319 Eye Irrit. 2

H334 Resp. Sens. 1

H335 STOT SE 3

Causes skin irritation

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

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H351 Carc. 2
H373 STOT RE 2Suspected of causing cancer.
May cause damage to organs through prolonged or repeated exposure.**Precautionary statements:****P261****P280****P302+P352****P305+P351+P338****P342+P311****P362 + P364**

Avoid breathing dust/fume/gas/mist/vapour/aerosols.

Wear protective gloves, protective clothing, eye protection, face protection.

IF ON SKIN: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If experiencing respiratory symptoms: Call a POISON CENTRE or doctor.

Take off contaminated clothing and wash it before reuse.

Contains:

4,4'-Methylenediphenyldiisocyanate**Additional labeling according to REACH: From 24 August 2023, appropriate training is required for industrial or professional use****2.3 Other hazards:**

The product does not contain PBT/vPvB substances in an amount of 0.1% or higher. The product does not contain endocrine disruptors in amounts of 0.1% or higher.

3. SECTION 3: Composition/information on ingredients:**3.1. substances**

Not applicable

3.2. Mixtures

In accordance with Regulation (EC) No. 1272/2008

4,4'-Methylenediphenyl diisocyanate

CAS number: 101-68-8 ≤ 30 %

EINECS: 202-966-0

REACH Reg.nr: 01-2119457014-47

*LC50, inhalation: 11 mg/l; Exposure limits are set for the substance, see section 8***CLP Classification:**

H315 Skin Irrit. 2

H317 Skin Sens. 1

H319 Eye Irrit. 2

H332 Acute tox. 4

H334 Resp. Sens. 1

H335 STOT SE 3

H351 Carc. 2

H373 STOT RE 2

Propylene carbonate

CAS number: 108-32-7 ≤ 10 %

EINECS: 203-572-1

REACH Reg.nr: 01-2119537232-48

CLP Classification:

H319 Eye Irrit. 2

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Classifications not listed in full in this section, including hazard class and hazard statements, can be found in full in section 16..

4. SECTION 4: First aid measures:

4.1 Description of first aid measures:

Always ask medical advice as soon as possible should serious or continuous disturbances occur.

Skin contact:	Remove contaminated clothing, rinse skin with plenty of water and immediately transport to hospital.
Eye contact:	Thoroughly rinse with water (contact lenses to be removed if this is easily done) then take to the doctor.
Ingestion:	Rinse mouth, do not induce vomiting, take to hospital immediately.
Inhalation:	Let sit upright, fresh air, rest and take to hospital.

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

Skin contact:	redness, pain, burns, cauterization
Eye contact:	redness, pain, blurred vision, burns
Ingestion:	abdominal cramps, diarrhea, dizziness, headache, vomiting, burning pain in the mouth
Inhalation:	headache, dizziness, nausea, drowsiness, unconsciousness

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

None

5. SECTION 5: Fire-fighting measures:

5.1 Extinguishing media:

CO2, foam, powder, sprayed water

5.2 Special hazards arising from the substance or mixture:

None

5.3 Advice for firefighters

None

6. SECTION 6: Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures:

Do not walk into or touch spilled substances and avoid inhalation of fumes, smoke, dusts and vapours by staying up wind. Remove any contaminated clothing and used contaminated protective equipment and dispose of it safely.

6.2 Environmental precautions:

Do not allow to flow into sewers or open water.

6.3 Methods and material for containment and cleaning up:

Contain released substance, store into suitable containers. If possible, remove by using absorbent material.

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6.4 Reference to other sections:

For further information, check section 8 & 13.

7. SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handle with care to avoid spillage.

7.2 Condition for safe storage, including any incompatibilities

Keep in a sealed container in a closed, frost-free, ventilated room.

7.3 Specific end use(s):

See section 1.2.

8. SECTION 8: Exposure control/personal protection




8.1 Control parameters:

Government Regulation No. 361/2007 Coll. as amended:

4,4'-methylene diphenyl diisocyanate: PEL 0.05 mg/m³; NPK-P 0.1 mg/m³; note I; note S.

PEL – permissible exposure limit; NPK-P – highest permissible concentration at the workplace; note S - the substance has a sensitizing effect; note I - irritates mucous membranes (eyes, respiratory tract) or the skin

8.2 Exposure controls:

Inhalation protection:	If necessary, use an air-purifying face mask in case of respiratory hazards.	
Skin protection:	Handling with Viton-gloves (EN 374). Breakthrough time: >480' Material thickness: 0,7 mm. Thoroughly check gloves before use. Take of the gloves properly without touching the outside with your bare hands. The manufacturer of the protective gloves has to be consulted about the suitability for a specific work station. Wash and dry your hands.	
Eye protection:	Keep an eye-rinse bottle within reach. Tight-fitting safety goggles. Wear a face shield and protective suit in case of exceptional processing problems.	

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Other protection:	Wear impermeable clothing. The type of protective equipment depends on the concentration and amount of hazardous substances at the work station in question.	
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9. SECTION 9: Physical and chemical properties:

9.1 Information on basic physical and chemical properties:

State:	liquid
Colour:	undetermined
Melting point/melting range:	/
Boiling point/Boiling range:	242 °C — 394 °C
pH:	/
Vapour pressure/20°C:	3 Pa
Vapour density:	Not applicable
Relative density, 20°C:	1.0600 kg/l
Appearance/20°C:	Liquid
Flash point:	/
Flammability (solid, gas):	Not applicable
Auto-ignition temperature:	330 °C
Upper flammability or explosive limit, (Vol %):	/
Lower flammability or explosive limit, (Vol %):	/
Explosive properties:	Not applicable
Oxidising properties:	Not applicable
Decomposition temperature:	/
Solubility in water:	Not soluble
Partition coefficient: noctanol/water:	Not applicable
Odour:	characteristic
Odour threshold:	Not applicable
Dynamic viscosity, 20°C:	350 mPa.s
Kinematic viscosity, 40°C:	330 mm ² /s
Evaporation rate (n-BuAc = 1):	/

9.2. Other information:

Volatile organic component (VOC):	/
Volatile organic component (VOC):	97.308 g/l
Sustained combustion test:	/

10. SECTION 10: Stability and reactivity:

10.1 Reactivity:

Stable under normal conditions

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Protect from extremely high or low temperatures

10.3 Possibility of hazardous reactions:

None

10.4 Conditions to avoid:

Protect from sunlight and do not expose to temperatures exceeding + 50°C.

10.5 Incompatible materials:

Alkalines, water, acids, organic matter, oxidants, reductants

10.6 Hazardous decomposition products:

Under recommended usage conditions, hazardous decomposition products are not expected.

11. SECTION 11: Toxicological information:**11.1 Information on the hazard classes defined in Regulation (EC) No. 1272/2008:****Acute toxicity:**

It does not meet the criteria for classification

Calculated acute toxicity, ATE oral:

/

Calculated acute toxicity, ATE dermal:

/

4,4'-Methylenediphenyldiisocyanate	LD50 oral, rat:	≥ 5 000 mg/kg
	LD50 dermal, rabbit:	≥ 5 000 mg/kg
	LC50, Inhalation, rat, 4h:	11 mg/l
Propylene carbonate	LD50 oral, rat:	≥ 5 000 mg/kg
	LD50 dermal, rabbit:	≥ 5 000 mg/kg
	LC50, Inhalation, rat, 4h:	≥ 50 mg/l

Skin corrosion/irritation:

Irritating to skin.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory/Skin Sensitization:

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

Carcinogenicity:

Suspected of causing cancer.

Germ cell mutagenicity:

Does not meet the criteria for classification.

Reproductive toxicity:

Does not meet the criteria for classification.

Specific target organ toxicity - single exposure:

May cause respiratory tract irritation.

Specific target organ toxicity - repeated exposure:

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard:

Does not meet the criteria for classification.

11.2 Information on additional hazards

The product does not contain endocrine disruptors in amounts of 0,1 % or higher.

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12. SECTION 12: Ecological information:**12.1 Toxicity:**

4,4'-Methylenediphenyldiisocyanate	LC50 (Fish): > 1 000 mg/l EC50 (invertebrates, Daphnia): > 1 000 mg/l EC50 (Algae): > 100 mg/l
Propylene carbonate	LC50 (Fish): > 1000 mg/L (96h) NOEC (Fish): 1000 mg/L (96h) EC50 (invertebrates, Daphnia): > 1000 mg/L (24h) EC50 (Algae): > 900 mg/L (72h) NOEC (Algae): 900 mg/L (72h) EC50 (soil microorganisms): 25619 mg/L (16h)

12.2 Persistence and degradability:

Not readily biodegradable (according to OECD criteria).

12.3 Bioaccumulative potential:

No additional data available

12.4 Mobility in soil:**Solubility in water:** Not soluble**12.5 Results of PBT and vPvB assessment:**

No additional data available

12.6 Endocrine-disrupting properties:

The product does not contain endocrine disruptors in amounts of 0,1 % or higher.

12.7 Other adverse effects:

No additional data available

13. SECTION 13: Disposal consideration**13.1. Waste treatment methods:**

Discharge into the sewer is not permitted. The liquidation should be carried out with the help of a specialized company. Local regulations must also always be observed.

According to the European Waste Catalog, waste codes are not characteristic of the product, but of its use. Waste codes should be assigned by the user, preferably after discussion with the authorities responsible for waste disposal.

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SECTION 14: Transport information

14.1. UN number:

Not applicable

14.2 Official (UN) shipping name:

not applicable

14.3 Transport hazard class(es):

not applicable

14.4 Packing group:

Not applicable

14.5 Environmental hazards:

Not applicable

14.6 Special precautions for user:

Not applicable

14.7 Maritime bulk transport according to IMO instruments

Not applicable

15. SECTION 15: Regulatory information

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

Water hazard class, WGK (AwSV):	1
Volatile organic component (VOC):	/
Volatile organic component (VOC):	97.308 g/l
Composition by regulation (EC)648/2004:	None

REACH Annex XVII - Restrictions: entry 56, 74.

Regulation of the European Parliament and of the Council (EC) No. 1907/2006 (REACH),
Regulation of the European Parliament and of the Council (EC) No. 1272/2008 (CLP),
Act No. 350/2011 Coll. on chemical substances and chemical mixtures,
Act No. 258/2000 Coll. on the protection of public health as amended.

15.2. Chemical Safety Assessment:

No data available

16. SECTION 16: Other information

Legend to abbreviations used in the safety data sheet:

ADR European Agreement on the International Carriage of Dangerous Goods by Road

BCF Bioconcentration factor

CAS: Chemical Abstracts Service

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CLP: Classification, labeling and packaging of chemicals
EINECS: European List of Existing Traded Chemical Substances
Nr.: Number
PTB: persistent, toxic, bioaccumulative
TLV: Threshold Limit Values
vPvB: very persistent and very bioaccumulative substances
WGK: Water hazard class
WGK 1: slightly threatening water resources
WGK 2: hazardous to water
WGK3: severely threatening water resources

Legend to the H Phrases used in the safety data sheet:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.

CLP Calculation method: taken from supplier (calculation)

Data sources: supplier's safety data sheet, ECHA.

Workers must be instructed on handling risks and on health and environmental protection requirements.

This safety information sheet has been compiled in accordance with annex II/A of the regulation (EU) No 2015/830.

Classification has been calculated in accordance with European regulation 1272/2008 with their respective amendments. It has been compiled with the utmost care. We cannot, however, accept responsibility for damage, of any kind, that may be caused by using these data or the product concerned. To use this preparation for an experiment or a new application, the user must carry out a material suitability and safety study himself.

Revision

Issue date: 25.3.2024

Revision notes: modification of the format according to Regulation 878/2020/EU; addition of UFI; addition of exposure limits in section 8.