

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

1.1 Product identifier

Trade name: PUR 968

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

No further relevant information available.

Application of the substance / the mixture Flexible polyurethane foam (B2)

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier/Distributor:

Friulsider SpA, Via Trieste 1, 33048 San Giovanni al Natisone, Udine, ITALIA

e-mail: info@friulsider.com

Tel.: +39 0432 747911 Fax.: +39 0432 758444

e-mail of responsible for the safety data sheet: environmental@friulsider.com

1.4 Emergency telephone number:

Company emergency telephone:

+39 0432 747911 (8.30 am – 5.30 pm)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

| | | |
|-------------------|-----------|--|
| Flam. Aerosol 1 | H222-H229 | Extremely flammable aerosol. Pressurised container: May burst if heated. |
| Resp. Sens. 1 | H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Carc. 2 | H351 | Suspected of causing cancer. |
| STOT RE 2 | H373 | May cause damage to organs through prolonged or repeated exposure. |
| Acute Tox. 4 | H332 | Harmful if inhaled. |
| Skin Irrit. 2 | H315 | Causes skin irritation. |
| Eye Irrit. 2 | H319 | Causes serious eye irritation. |
| Skin Sens. 1 | H317 | May cause an allergic skin reaction. |
| STOT SE 3 | H335 | May cause respiratory irritation. |
| Lact. | H362 | May cause harm to breast-fed children. |
| Aquatic Chronic 4 | H413 | May cause long lasting harmful effects to aquatic life. |

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02 GHS07 GHS08

Signal word Danger

Hazard-determining components of labelling:

diphenylmethanediisocyanate, isomeres and homologues

Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

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| | |
|------|--|
| H332 | Harmful if inhaled. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H317 | May cause an allergic skin reaction. |
| H351 | Suspected of causing cancer. |
| H362 | May cause harm to breast-fed children. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H413 | May cause long lasting harmful effects to aquatic life. |

Precautionary statements

| | |
|----------------|---|
| P102 | Keep out of reach of children. |
| P201 | Obtain special instructions before use. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source. |
| P251 | Do not pierce or burn, even after use. |
| P284 | In case of inadequate ventilation wear respiratory protection (a protective mask with an appropriate gas filter - i.e. type A1 according to standard EN 14387). |
| P280 | Wear protective gloves/protective clothing/eye protection. |
| P260 | Do not breathe vapours/spray. |
| P302+P352 | IF ON SKIN: Wash with plenty of water/soap. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
| P501 | Dispose of container to in accordance with local/regional/national/international regulation. |

Additional information:

Contains isocyanates. May produce an allergic reaction.







2.3 Other hazards**Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients**3.2 Chemical characterisation: Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:

| | | |
|--------------------------------------|--|--------|
| CAS: 9016-87-9 | diphenylmethanediisocyanate, isomeres and homologues  Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373;  Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 | 40-45% |
| CAS: 13674-84-5 | tris(2-chlorisopropyl)-phosphate  Acute Tox. 4, H302 | 1-10% |
| CAS: 75-28-5 EINECS: 200-857-2 | isobutane  Flam. Gas 1, H220; Press. Gas C, H280 | 1-10% |
| CAS: 115-10-6 EINECS: 204-065-8 | dimethyl ether  Flam. Gas 1, H220; Press. Gas C, H280 | 1-10% |
| CAS: 85535-85-9 EINECS: 287-477-0 | alkanes, C14-17, chloro  Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Lact., H362 | 1-5% |

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CAS: 74-98-6
EINECS: 200-827-9

propane
⚠ Flam. Gas 1, H220; Press. Gas C, H280

<5%

SECTION 4: First aid measures

· 4.1 Description of first aid measures

· General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing: Call for a doctor immediately.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· 5.2 Special hazards arising from the substance or mixture

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

Hydrogen cyanide (HCN)

· 5.3 Advice for firefighters

· **Protective equipment:** Mouth respiratory protective device.

· **Additional information** Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Keep away from ignition sources.

Wear protective equipment. Keep unprotected persons away.

· 6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow product to reach sewage system or any water course.

· 6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in a cool location.
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:**
Store away from oxidising agents.
Do not store together with acids.
Do not store together with alkalis (caustic solutions).
- **Further information about storage conditions:**
Keep container tightly sealed.
Store in dry conditions.
Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

8.1 Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

| | |
|-----|---|
| WEL | Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO |
|-----|---|

115-10-6 dimethyl ether

| | |
|-----|--|
| WEL | Long-term value: 1920 mg/m ³ , 1000 ppm |
|-----|--|

- **Additional information:** The lists valid during the making were used as basis.

8.2 Exposure controls

- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

| | |
|----------------|------------------------------------|
| Form: | Aerosol |
| Colour: | According to product specification |
| Odour: | Characteristic |

- **Change in condition**

| | |
|-------------------------------------|--|
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | Undetermined. Not applicable, as aerosol. |

| | |
|---------------------|--|
| Flash point: | Not applicable. Not applicable, as aerosol. |
|---------------------|--|

| | |
|------------------------------|------------------------------|
| Ignition temperature: | 235 °C |
| Self-igniting: | Product is not selfigniting. |

| | |
|-----------------------------|---------------------------------|
| Danger of explosion: | Heating may cause an explosion. |
|-----------------------------|---------------------------------|

| | |
|--------------------------|-----------|
| Explosion limits: | |
| Lower: | 1.8 Vol % |
| Upper: | 8.5 Vol % |

| | |
|----------------------------------|----------|
| Vapour pressure at 20 °C: | 3000 hPa |
|----------------------------------|----------|

| | |
|-----------------|-----------------|
| Density: | Not determined. |
|-----------------|-----------------|

| | |
|--|------------|
| Solubility in / Miscibility with water: | Insoluble. |
|--|------------|

| | |
|-------------------------|--------|
| Solvent content: | |
| VOC (EC) | 19.4 % |

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- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Nitrogen oxides (NO_x)
Hydrogen cyanide (prussic acid)
Carbon monoxide

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity:**
 - **LD/LC50 values relevant for classification:**
- | | | |
|--------------------------------|----------|----------------|
| 115-10-6 dimethyl ether | | |
| Inhalative | LC50/4 h | 308 mg/l (rat) |
- **Primary irritant effect:**
 - **on the skin:** Irritant to skin and mucous membranes.
 - **on the eye:** Irritating effect.
 - **Sensitisation:**
Sensitisation possible through inhalation.
Sensitisation possible through skin contact.
 - **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Harmful
Irritant
 - **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
Carc. 2, Lact.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

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- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

| | |
|-----------|---|
| 08 05 01* | waste isocyanates |
| 16 05 04* | gases in pressure containers (including halons) containing dangerous substances |

· Uncleaned packaging:

- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· 14.1 UN-Number

- **ADR, IMDG, IATA** 1950

· 14.2 UN proper shipping name

- **ADR** 1950 AEROSOLS
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable

· 14.3 Transport hazard class(es)

- **ADR**
- **Class** 2 5F Gases.
- **Label** 2.1

· IMDG, IATA

- **Class** 2.1
- **Label** 2.1

· 14.4 Packing group

- **ADR, IMDG, IATA** Void

· 14.5 Environmental hazards:

- **Marine pollutant:** No

· 14.6 Special precautions for user

- **Warning:** Gases.

- **EMS Number:** F-D,S-U

· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

· Transport/Additional information:

· ADR

- **Limited quantities (LQ)** 1l

- **UN "Model Regulation":** UN1950, AEROSOLS, 2.1

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SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
 No further relevant information available.
- **15.2 Chemical safety assessment:**
 A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
 H220 Extremely flammable gas.
 H280 Contains gas under pressure; may explode if heated.
 H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H332 Harmful if inhaled.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.
 H351 Suspected of causing cancer.
 H362 May cause harm to breast-fed children.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
- **Abbreviations and acronyms:**
 Flam. Gas 1: Flammable gases, Hazard Category 1
 Flam. Aerosol 1: Flammable aerosols, Hazard Category 1
 Press. Gas C: Gases under pressure: Compressed gas
 Acute Tox. 4: Acute toxicity, Hazard Category 4
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
 Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
 Carc. 2: Carcinogenicity, Hazard Category 2
 Lact.: Reproductive toxicity, Additional category, Effects on or via lactation
 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2
 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
 Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4

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