



# PUR 966

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# 1 Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation PUR 966 Application of the substance / the preparation: Polyurethane foam hand held for roofing tiles (B2) Manufacturer/Supplier: DISTRIBUTOR Friulsider SpA, Via Trieste 1, 33048 San Giovanni al Natisone, Udine, ITALIA Tel.: +39 0432 747911 Fax.: +39 0432 758444 e-mail: environmental@friulsider.com Information in case of emergency Company emergency telephone: +39 0432 747911 (8.30 am – 5.30 pm)

## 2 Hazards identification

#### · Classification of the substance or mixture

#### · Classification according to Regulation (EC) No 1272/2008

Flam. Aerosol 1 H222 Extremely flammable aerosol.

riam. Acrosor r	
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.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.
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.

#### · Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful

R20-40-48/20: Harmful by inhalation. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.

Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

#### F+; Extremely flammable

R12: Extremely flammable.

R53-64: May cause long-term adverse effects in the aquatic environment. May cause harm to

breastfed babies.

# · Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurized container.

#### · Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.





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# · Label elements

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials. • Code letter and hazard designation of product:



Xn Harmful F+ Extremely flammable

· Hazard-determining components of labelling:

diphenylmethanediisocyanate, isomeres and homologues

#### · Risk phrases:

12 Extremely flammable.

20 Harmful by inhalation.

36/37/38 Irritating to eyes, respiratory system and skin.

- 40 Limited evidence of a carcinogenic effect.
- 42/43 May cause sensitisation by inhalation and skin contact.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- 53 May cause long-term adverse effects in the aquatic environment.
- 64 May cause harm to breastfed babies.

#### · Safety phrases:

- 2 Keep out of the reach of children.
- 16 Keep away from sources of ignition No smoking.
- 23 Do not breathe aerosol.
- 28 After contact with skin, wash immediately with plenty of soap and water.
- 36/37 Wear suitable protective clothing and gloves.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.

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#### · Special labelling of certain preparations:

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition – No smoking. Keep out of the reach of children.

Contains isocyanates. See information supplied by the manufacturer

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

#### · Other hazards

- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

# 3 Composition/information on ingredients

## · Chemical characterization: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.





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Dangerous components:				
CAS: 9016-87-9	diphenylmethanediisocyanate,isomeres and homologues Xn R20-40-48/20; Xn R42/43; Xi R36/37/38 Carc. Cat. 3 ♦ 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	40-50%		
CAS: 13674-84-5	tris(2-chlorisopropyl)-phosphate R52/53 Aquatic Chronic 3, H412	1-10%		
CAS: 75-28-5 EINECS: 200-857-2	isobutane ▶ F+ R12 ♦ Flam. Gas 1, H220; ♦ Press. Gas, H280	1-10%		
CAS: 85535-85-9 EINECS: 287-477-0	alkanes, C14-17, chloro N R50/53 R64-66 Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Lact., H362	1-10%		
CAS: 115-10-6 EINECS: 204-065-8	dimethyl ether F+ R12 Flam. Gas 1, H220; Press. Gas, H280	1-5%		
CAS: 74-98-6 EINECS: 200-827-9	propane F+ R12 Flam. Gas 1, H220; Press. Gas, H280	<5%		

· Additional information: For the wording of the listed risk phrases refer to section 16.

# 4 First aid measures

# · 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:

If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

• After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

· After swallowing: Call for a doctor immediately.

· Information for doctor:

 $\cdot$  Most important symptoms and effects, both acute and delayed

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **5 Firefighting measures**

· Extinguishing media

#### · Suitable extinguishing agents:

Foam

CO2, sand, extinguishing powder. Do not use water.

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

#### · Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Nitrogen oxides (NOx) Carbon monoxide (CO)

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Hydrogen cyanide (HCN)

# · Advice for firefighters

• Protective equipment: Mouth respiratory protective device.

## · Additional information

Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

# 6 Accidental release measures

# · Personal precautions, protective equipment and emergency procedures

Keep away from ignition sources.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

#### · Environmental precautions:

Do not allow to enter sewers/ surface or ground water. Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system.

## • Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Do not flush with water or aqueous cleansing agents

## · Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

# 7 Handling and storage

#### · Handling:

#### · Precautions for safe handling

Ensure that suitable extractors are available on processing machines Ensure good ventilation/exhaustion at the workplace.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

# $\cdot$ Conditions for safe storage, including any incompatibilities

#### · Storage:

· Requirements to be met by storerooms and receptacles:

Observe official regulations on storing packagings with pressurized containers.

#### · Information about storage in one common storage facility:

Store away from water.

Do not store together with acids.

Do not store together with alkalis (caustic solutions).

· Further information about storage conditions:

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Protect from humidity and water.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

• Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

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





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## Control parameters

Ingredier	ts with limit values that require monitoring at the workplace:	
9016-87-9 diphenylmethanediisocyanate, isomeres and homologues		
WEL	Short-term value: 0.07 mg/m <sup>3</sup>	
	Long-term value: 0.02 mg/m <sup>3</sup>	
115-10-6 dimethyl ether		
WEL	Short-term value: 958 mg/m <sup>3</sup> , 500 ppm	
	Long-term value: 766 mg/m <sup>3</sup> , 400 ppm	
68476-85-7 Petroleum gases, liquefied		
WEL	Short-term value: 2180 mg/m <sup>3</sup> , 1250 ppm	
	Long-term value: 1750 mg/m <sup>3</sup> , 1000 ppm	
Additional information: The lists valid during the making were used as basis.		

#### · Exposure controls

#### · Personal protective equipment:

· General protective and hygienic measures:

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 selfcontained respiratory protective device.

#### · Protection of hands:



Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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 trough time has to be found out by the manufacturer of the protective gloves and has

to be observed.

· Eye protection:



Tightly sealed goggles

# 9 Physical and chemical properties

#### Information on basic physical and chemical properties

· General Information

Aerosol
According to product specification
Characteristic
Undetermined.
Undetermined.
-21 ℃
199 <i>°</i> C
Product is not selfigniting.
Heating may cause an explosion.





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- · Density:
- Not determined. · Solubility in / Miscibility with Insoluble.
- water:
- · Solvent content: VOC (EC)

15 %

Other information

No further relevant information available.

# 10 Stability and reactivity

- · Reactivity
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions Contact with water releases flammable gases.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.

# · Hazardous decomposition products:

Hydrogen cyanide (prussic acid) Carbon monoxide Nitrogen oxides (NOx)

# 11 Toxicological information

# Information on toxicological effects

- · Acute toxicity:
- · LD/LC50 values relevant for classification:
- 13674-84-5 tris(2-chlorisopropyl)-phosphate
- Oral LD50 3600 mg/kg (rat)

# · Primary irritant effect:

- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.

#### · Sensitization:

Sensitization possible through inhalation.

Sensitization 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

# 12 Ecological information

- · Toxicity
- · Acquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · 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.

# Results of PBT and vPvB assessment

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





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# 13 Disposal considerations

## Waste treatment methods

· Recommendation

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

## · Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

14 Transport information · UN-Number · ADR, IMDG, IATA	1950
UN proper shipping name ADR IMDG IATA	1950 AEROSOLS AEROSOLS AEROSOLS, flammable
<ul> <li>Transport hazard class(es)</li> <li>ADR</li> <li>Class</li> <li>Label</li> </ul>	2 5F Gases. 2.1
· IMDG, IATA · Class · Label	2.1 2.1
· Packing group · ADR, IMDG, IATA	Void
• Environmental hazards: • Marine pollutant:	No
• Special precautions for user • EMS Number:	Warning: Gases. F-D,S-U
<ul> <li>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</li> </ul>	Not applicable.
· Transport/Additional information: · ADR · Remarks:	LQ:2
· UN "Model Regulation":	UN1950, AEROSOLS, 2.1

#### 15 Regulatory information

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **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.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

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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.

H412 Harmful to aquatic life with long lasting effects.

R12 Extremely flammable.

R20 Harmful by inhalation.

R36/37/38 Irritating to eyes, respiratory system and skin.

R40 Limited evidence of a carcinogenic effect.

R42/43 May cause sensitisation by inhalation and skin contact.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R64 May cause harm to breastfed babies.

R66 Repeated exposure may cause skin dryness or cracking.

#### · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent