

Material Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 09.10.2007

Revision: 09.10.2007

1 Identification of substance

- **Product details**
- **Trade name** Graffiti Protector PUR, Activator
- **Article number:** 9930
- **Application of the substance / the preparation** Sealing
- **Manufacturer/Supplier:**
Remmers Baustofftechnik GmbH
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D-49624 Lönningen / Germany
Tel.: 05432/83-0
Fax: 05432/3985
- **Informing department:**
Product Safety department: Tel.: +49 (0)5432/83-138/-538
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U.K.: Tel.: +44 (0) 845 373 0103
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2 Hazards identification

- **Hazard designation:**



Xi Irritant

- **Information pertaining to particular dangers for man 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.

R 10 Flammable.

R 43 May cause sensitisation by skin contact.

Contains isocyanates. See information supplied by the manufacturer

- **Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3 Composition/information on ingredients

- **Chemical characterization**

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

- **Dangerous components:**

CAS: 28182-81-2	aliphatic polyisocyanate	Xi; R 43	60-100%
CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate	Xi; R 10-36	5-<10%
CAS: 1330-20-7 EINECS: 215-535-7	xylene, mixed isomers, pure	Xn, Xi; R 10-20/21-38	5-<10%

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CAS: 100-41-4 EINECS: 202-849-4	ethylbenzene	Xn, F; R 11-20	1-5%
CAS: 822-06-0 EINECS: 212-485-8	hexamethylene diisocyanate	T, Xi; R 23-36/37/38-42/43	<1%

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

4 First aid measures

· General information

If symptoms occur or in case of doubt, seek medical attention. In case of unconsciousness, do not administer anything orally.

· After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness bring patient into stable side position for transport.

· After skin contact

Remove contaminated clothing.

Wash off immediately with water.

If skin irritation continues, consult a doctor.

· After eye contact

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

· After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

5 Fire fighting measures

· Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

· For safety reasons unsuitable extinguishing agents

Water with a full water jet.

· Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained breathing apparatus.

· Additional information

Collect contaminated fire fighting water separately. It must not enter drains.

6 Accidental release measures

· Person-related safety precautions:

Wear protective equipment. Keep unprotected persons away.

· Measures for environmental protection:

Dilute with plenty of water.

· Measures for cleaning/collecting:

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

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

7 Handling and storage

· Handling

· Information for safe handling:

Ensure good ventilation/exhaust in workplaces.

· Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

· Storage

· Requirements to be met by storerooms and containers:

No special requirements.

· Information on storage in a common storage facility:

none

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- **Further information about storage conditions:** Keep container tightly closed.

8 Exposure controls and personal protection

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

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

108-65-6 2-methoxy-1-methylethyl acetate

WEL	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm Sk
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1330-20-7 xylene, mixed isomers, pure

WEL	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV
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100-41-4 ethylbenzene

WEL	Short-term value: 552 mg/m ³ , 125 ppm Long-term value: 441 mg/m ³ , 100 ppm
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822-06-0 hexamethylene diisocyanate

WEL	Short-term value: 0.07 mg/m ³ Long-term value: 0.02 mg/m ³ Sen; as -NCO
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- **Additional information:** The lists that were valid during compilation were used as a basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from food, beverages and animal feed.
Immediately remove soiled, saturated clothing.
Wash hands before pauses and after work.
Avoid contact with eyes and skin.
- **Respiratory equipment:**
Filter A (brown)
In case of brief exposure or low pollution load, use respiratory protection equipment with filter. In case of intensive or longer exposure, use self-contained respiratory protection equipment.
- **Protection of hands:** Solvent resistant gloves
- **Material of gloves**
Nitrile rubber, NBR
Natural rubber, NR
Neoprene gloves
- **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 safety glasses.
- **Body protection:** Closed work clothing

9 Physical and chemical properties:

- **General Information**

Form:	Fluid
Colour:	According to product specification
Odour:	Like aromatic solvents

- **Change in condition**

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined

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· Flash point:	23°C
· Self-inflammability:	Product is not self-igniting.
· Danger of explosion:	Product is not explosive. However, formation of dangerous explosive vapour/air mixtures is possible.
· Explosive Limits:	
Lower:	0.7 Vol %
Upper:	12 Vol %
· Density at 20°C	1 g/cm ³
· Solubility in / Miscibility with Water:	Slightly soluble

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous decomposition products:**
Carbon monoxide and carbon dioxide as well as other toxic gases and vapours.

11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:**
Irritates skin and mucous membranes.
Dries skin out.
- **on the eye:** Irritating effect.
- **Sensitisation:** No sensitising effect known.
- **Additional toxicological information:**
The product shows the following dangers based on the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Harmful
Irritant
- **Sensitisation** May cause sensitisation by skin contact.

12 Ecological information:

- **General notes:**
Water hazard class 2 : hazardous to water.
Do not allow product to reach ground water, bodies of water or sewage system.

13 Notes on disposal:

- **Product:**
- **Recommendation**
Do not dispose of together with household garbage. Do not allow product to reach sewage system.
Must be specially treated in compliance with official regulations.
- **Uncleaned packaging:**
- **Recommendation:**
Only completely empty containers may be recycled.
Disposal must be made according to official regulations.

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- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

14 Transport information

- **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**



- **ADR/RID-GGVS/E Class:** 3 (F1) Flammable liquids.
- **Kemler Number:** 30
- **UN-Number:** 1263
- **Packaging group:** III
- **Danger sign:** 3
- **Designation of goods:** 1263 PAINT
- **Limited quantities (LQ)** LQ7
- **Tunnel restriction code** E

- **Maritime transport IMDG/GGVSea:**



- **IMDG/GGVSea Class:** 3
- **UN Number:** 1263
- **Label** 3
- **Packaging group:** III
- **EMS Number:** F-E,S-E
- **Marine pollutant:** No
- **Correct technical name:** PAINT

- **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 3
- **UN/ID Number:** 1263
- **Label** 3
- **Packaging group:** III
- **Correct technical name:** PAINT

15 Regulatory information

- **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Guidelines / Ordinance on Hazardous Materials (GefStoffV)

- **Code letter and hazard designation of product:**



Xi Irritant

- **Hazard-determining components of labelling:**
aliphatic polyisocyanate

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- **Risk phrases:**

- 10 Flammable.
- 43 May cause sensitisation by skin contact.

- **Safety phrases:**

- 24 Avoid contact with skin.
- 37 Wear suitable gloves.
- 51 Use only in well-ventilated areas.
- 60 This material and its container must be disposed of as hazardous waste.

- **Special labelling of certain preparations:**

Contains isocyanates. See information supplied by the manufacturer

- **National regulations**

- **Technical instructions (air):**

Class	Proportion in %
I	≤0,1
NK	10-<20

- **Water hazard class:** Water hazard class 2: hazardous to water.

16 Other information:

This data is based on our present state of knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship. Delivery specifications are found in the respective Technical Information Sheets.

- **Relevant R-phrases**

- 10 Flammable.
- 11 Highly flammable.
- 20 Harmful by inhalation.
- 20/21 Harmful by inhalation and in contact with skin.
- 23 Toxic by inhalation.
- 36 Irritating to eyes.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 38 Irritating to skin.
- 42/43 May cause sensitisation by inhalation and skin contact.
- 43 May cause sensitisation by skin contact.

- **Department issuing data specification sheet:** Product Safety department