

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

· Product details

PERGAQUICK A2 S

· Trade name:
· Application of the substance /
the preparation

Accelerator for polymerisation / crosslinking
For industrial use

· Manufacturer/Supplier:

PERGAN GmbH
Hilfsstoffe für industrielle Prozesse
Schlavenhorst 71
D-46395 Bocholt
Tel: +49 2871 9902-0
Fax: +49 2871 9902-50

· Further information obtainable
from:

Environment protection / Security of labour
Competent person:
* Kathrin Bohland (Sales) e-mail: k.bohland@pergan.com
* Christoph Wilting (Environment protection / Security of labour) e-mail: c.wilting@pergan.com

· Information in case of
emergency:

- Tel: +49 2871 9902-0

2 Hazards identification

· Hazard description:



Xn Harmful

· 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.

R 10 Flammable.
R 20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R 36/38 Irritating to eyes and skin.
R 40 Limited evidence of a carcinogenic effect.
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Classification system:

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

3 Composition/information on ingredients

· Chemical characterization

· Dangerous components:

CAS: 100-42-5 EINECS: 202-851-5 EU Number: 601-026-00-0	styrene	Xn, Xi; R 10-20-36/38	80-90%
CAS: 121-69-7 EINECS: 204-493-5 EU Number: 612-016-00-0	N,N-dimethylaniline	Carc. Cat. 3; T, N; R 23/24/25-40-51/53	5-10%

· Additional information:

For the wording of the listed risk phrases refer to section 16.

4 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.

Take care of personal protection for the first aider.

· After inhalation:

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

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

Take affected persons into fresh air and keep quiet.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Immediately remove contaminated clothing.

· 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.

5 Fire-fighting measures

· Suitable extinguishing agents:


CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards caused by the substance, its products of combustion or resulting gases: Under certain fire conditions, traces of other toxic gases cannot be excluded.
- Protective equipment: Mouth respiratory protective device.
Do not inhale explosion gases or combustion gases.
- Additional information: Cool endangered receptacles with water spray.
Self-protection first!

6 Accidental release measures

- Person-related safety precautions: Take precautionary measures against static discharges.
Wear protective equipment. Keep unprotected persons away.
- Measures for environmental protection: Inform respective authorities in case of seepage into water course or sewage system.
 Do not allow to enter sewers/ surface or ground water.
- Measures for cleaning/collecting: Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Soak up with absorbant material (e. g. Vermiculit) and dispose of in accordance with government regulations.
- Additional information: In case of large spillage the environmental authority should be informed.

7 Handling and storage

- Handling:
· Information for safe handling: Pay attention to the special requirements of your local authorities for handling with dangerous goods.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
Use only in well ventilated areas.
Before break and at the end of work hands should be thoroughly washed.
Avoid contact with skin and eyes.
While using do not eat, drink or smoke.
Do not generate flames or sparks.
Keep product and emptied container away from heat and sources of ignition.
Take precautionary measures against static discharges.
 Do not smoke.
- Information about fire - and explosion protection: Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools.
 Avoid open flames, sparks, direct sunlight and other sources of ignition.
Formation of flammable or explosive gas/air-mixtures is possible.
Keep ignition sources away - Do not smoke.
- Storage:
· Requirements to be met by storerooms and receptacles: Pay attention to the special requirements of your local authorities for storing dangerous goods.
Prevent any seepage into the ground.
Use only receptacles specifically permitted for this substance/product.
- Information about storage in one common storage facility: Store away from peroxide.
Store away from foodstuffs, drinks and feeding stuffs.
- Further information about storage conditions: Keep container tightly sealed.
Protect from contamination.
- Recommended storage temperature (To maintain quality): 0 +15°C
- Storage class: 6.1 A "Combustible toxic substances" (VCI Guideline)

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8 Exposure controls/personal protection

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

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

100-42-5 styrene

WEL (Great Britain) Short-term value: 1080 mg/m³, 250 ppm
Long-term value: 430 mg/m³, 100 ppm

121-69-7 N,N-dimethylaniline

WEL (Great Britain) Short-term value: 50 mg/m³, 10 ppm
Long-term value: 25 mg/m³, 5 ppm
Sk

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

· **Personal protective equipment:**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.
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 close or long term contact with the skin.
Avoid contact with the eyes and skin.
Do not eat, drink, smoke or sniff while working.
Use skin protection cream for skin protection.
Be sure to clean skin thoroughly after work and before breaks.

· **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.
Use suitable respiratory protective device in case of insufficient ventilation.



Filter A2

· **Protection of hands:**

Only use chemical-protective gloves with CE-labelling of category III.



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

Protective gloves

· **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.

Butyl rubber, BR
Fluorocarbon rubber (Viton)
Nitrile rubber, NBR
Neoprene

· **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

· **Body protection:**

Protective work clothing

9 Physical and chemical properties

· **General Information**

· **Form:** Fluid
· **Colour:** Yellowish
· **Odour:** Characteristic

· **Change in condition**

· **Melting point/Melting range:** Undetermined.
· **Boiling point/Boiling range:** 145°C

· **Flash point:** 31°C

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· **Density at 20°C:** 0.91 g/cm³

· **Solubility in / Miscibility with**

· **water:** Not miscible or difficult to mix.

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· Segregation coefficient (n-octanol/water): not determined	
· Viscosity:	
· Dynamic:	1 mPas

10 Stability and reactivity

· Dangerous reactions	No dangerous reactions known.
· Dangerous decomposition products:	No hazardous decomposition products if used and stored according to specifications.
· Additional information:	Emergency procedures will vary depending on conditions. The customer should have an emergency response plane in place.

11 Toxicological information

· Acute toxicity:	
· LD/LC50 values relevant for classification:	
100-42-5 styrene	
Oral	LD50 316 mg/kg (mus) 5000 mg/kg (rattus)
Inhalative	LC50 / 4h 12 mg/l (rattus)
121-69-7 N,N-dimethylaniline	
Oral	LD50 1120 mg/kg (rattus)
	LDLo 50 mg/kg (homo)
Dermal	LD50 1700 mg/kg (cuniculus)
Inhalative	LC50 / 4h >5.1 mg/l (rattus)
· Primary irritant effect:	
· on the skin:	Irritating effect.
· on the eye:	Irritating effect.
· Sensitization:	No sensitizing effects known.
· 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

· Ecotoxicological effects:	
· Aquatic toxicity:	
100-42-5 styrene	
EC50 / 48h	4.7 mg/l (daphnia)
EC50 / 5min	5.5 mg/l (bacteria)
IC5 / 8d	>200 mg/l (scenedesmus quadricauda)
LC50 / 96h	25 mg/l (lepomis macrochirus) 32 mg/l (pimephales promelas)
121-69-7 N,N-dimethylaniline	
EC50 / 0,5h	13.6 mg/l (photobacterium phosphoreum)
EC50 / 48h	5 mg/l (daphnia magna)
IC50/ 96h	340 mg/l (desmodesmus subspicatus)
LC50 / 96h	65.6 mg/l (pimephales promelas)
· Remark:	Harmful to fish
· General notes:	Harmful to aquatic organisms Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

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13 Disposal considerations

- **Product:**
- **Recommendation**  Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste disposal key:** Please contact your hazardous waste disposers to assign the right EWC-(European waste catalog)-number.
- **Uncleaned packaging:**
- **Recommendation:** This material and its container must be disposed of as hazardous waste.

14 Transport information

· **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 6.1 (TF1) Toxic substances.
- **Danger code (Kemler):** 63
- **UN-Number:** 2929
- **Packaging group:** II
- **Hazard label:** 6.1+3
- **Description of goods:** 2929 TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. (contains (STYRENE MONOMER, STABILIZED, N,N-DIMETHYLANILINE) like ADR
- **RID / GGVSE:**

· **Maritime transport IMDG:**




- **IMDG Class:** 6.1
- **UN Number:** 2929
- **Label** 6.1+3
- **Packaging group:** II
- **Marine pollutant:** No
- **Proper shipping name:** TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. (STYRENE MONOMER, STABILIZED, N,N-DIMETHYLANILINE)

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



- **ICAO/IATA Class:** 6.1
- **UN/ID Number:** 2929
- **Label** 6.1+3
- **Packaging group:** II
- **Proper shipping name:** TOXIC LIQUID, FLAMMABLE, ORGANIC, N.O.S. (STYRENE MONOMER, STABILIZED, N,N-DIMETHYLANILINE)

15 Regulatory information

- **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
- **Hazard-determining components of labelling:** N,N-dimethylaniline
styrene
- **Risk phrases:** 10 Flammable.
20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
36/38 Irritating to eyes and skin.
40 Limited evidence of a carcinogenic effect.

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- **Safety phrases:**
 - 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 - 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
 - 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - 28 After contact with skin, wash immediately with plenty of soap and water.
 - 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 - 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 - 50 Do not mix with organic peroxides.
 - 60 This material and its container must be disposed of as hazardous waste.
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**
- **Please note:** Take care of the respective local regulations.

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 R-phrases**
 - 10 Flammable.
 - 20 Harmful by inhalation.
 - 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
 - 36/38 Irritating to eyes and skin.
 - 40 Limited evidence of a carcinogenic effect.
 - 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Department issuing MSDS:** Environment protection / Security of labour
- **Contact:** Tel: +49 2871 9902-0
E-mail: mail@pergan.com