


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

- **1.1 Product identifier**
- **Trade name:** PERGAQUICK A2 X
- **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**
Accelerator for polymerisation / crosslinking
For industrial use
- **1.3 Details of the supplier of the safety data sheet**
- **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:
* Sales Manager Germany: Mr. Ansgar Pappenheim, e-mail: a.pappenheim@pergan.com
* Export Sales Manager: Mr. Dr. Thomas Philipps, e-mail: dr.philipps@pergan.com
* Environment protection / : Mr. Christoph Wilting, e-mail: c.wilting@pergan.com
Security of labour
- **1.4 Emergency telephone number:** - Tel: +49 2871 9902-0

2 Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
Carc. 2 H351 Suspected of causing cancer.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
Xn; Harmful
R20/21/22-40: Harmful by inhalation, in contact with skin and if swallowed. Limited evidence of a carcinogenic effect.
R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **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.
- **Classification system:** The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard pictograms** 
GHS08
- **Signal word** Warning
- **Hazard-determining components of labelling:** N,N-dimethylaniline
- **Hazard statements** H351 Suspected of causing cancer.
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary statements** P273 Avoid release to the environment.
P281 Use personal protective equipment as required.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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3 Composition/information on ingredients

3.2 Chemical characterization: Mixtures

Dangerous components:

| | | |
|--|--|--------|
| CAS: 6846-50-0 EINECS: 229-934-9 Reg-No.:01-2119451093-47 | 1-isopropyl-2,2-dimethyltrimethylene diisobutryate | 80-90% |
| CAS: 121-69-7 EINECS: 204-493-5 Index number: 612-016-00-0 | N,N-dimethylaniline T R23/24/25; Xn R40; N R51/53 Carc. Cat. 3 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Carc. 2, H351; Aquatic Chronic 2, H411 | 5-10% |

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

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.



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 remove contaminated clothing.

After eye contact: Rinse opened eye for several minutes under running water.

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.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3 Advice for firefighters

Protective equipment:

Mouth respiratory protective device.

Do not inhale explosion gases or combustion gases.

Additional information

Self-protection first!

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

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



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

6.3 Methods and material for containment and cleaning up:

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.

6.4 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.

In case of large spillage the environmental authority should be informed.

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7 Handling and storage

- **7.1 Precautions for safe handling**
 - 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.
 - While using do not eat, drink or smoke.
- **Information about fire - and explosion protection:**
 - No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
 - **Storage:** Pay attention to the special requirements of your local authorities for storing dangerous goods.
 - **Requirements to be met by storerooms and receptacles:**
 - 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.
 - **Recommended storage temperature (To maintain quality):**
 - 0 +30 °C
- **7.3 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.
- **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:****121-69-7 N,N-dimethylaniline**

| | |
|---------------------|--|
| WEL (Great Britain) | Short-term value: 50 mg/m ³ , 10 ppm Long-term value: 25 mg/m ³ , 5 ppm Sk |
|---------------------|--|

· **DNELs****6846-50-0 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate**

| | | |
|------------|----------------------|---|
| Oral | DNEL Longterm System | 18.8 mg/kg bw/day (General population) |
| Dermal | DNEL Longterm System | 31.2 mg/kg bw/day (Worker) |
| | | 18.8 mg/kg bw/day (General population) |
| Inhalative | DNEL Longterm System | 110 mg/m ³ (Worker) |
| | | 32.6 mg/m ³ (General population) |

· **PNECs****6846-50-0 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate**

| | |
|---------------------|-------------------------|
| PNEC Freshwater | 0.014 mg/l (-) |
| PNEC Freshwater sed | 1.15 mg/kg sed dw (-) |
| PNEC Marinewater | 0.0014 mg/l (-) |
| PNEC STP | 3 mg/l (-) |
| PNEC Soil | 0.926 mg/kg soil dw (-) |

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

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— GB —

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Use suitable respiratory device when it exceed exposure limit and when insufficiently ventilated.



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

· **Material of gloves**

Protective 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

| | |
|--|---|
| · 9.1 Information on basic physical and chemical properties | |
| · General Information | |
| · Appearance: | |
| · Form: | Fluid |
| · Colour: | Yellowish |
| · Odour: | Characteristic |
| · Odour threshold: | Not determined. |
| · pH-value: | Not determined. |
| · Change in condition | |
| · Melting point/Melting range: | Undetermined. |
| · Boiling point/Boiling range: | Not applicable. |
| · Flash point: | 103 °C |
| · Flammability (solid, gaseous): | Not applicable. |
| · Decomposition temperature: | Not determined. |
| · Self-igniting: | Product is not selfigniting. |
| · Danger of explosion: | Product does not present an explosion hazard. |
| · Explosion limits: | |
| · Lower: | Not determined. |
| · Upper: | Not determined. |
| · Vapour pressure: | Not determined. |
| · Density at 20 °C: | 0.943 g/cm ³ |
| · Relative density | Not determined. |
| · Vapour density | Not determined. |
| · Evaporation rate | Not determined. |
| · Solubility in / Miscibility with | |
| · water: | Undetermined. |
| · Partition coefficient (n-octanol/water): not determined | |
| · Viscosity: | |
| · Dynamic at 20 °C: | 6 mPas |
| · Kinematic: | Not determined. |
| · 9.2 Other information | No further relevant information available. |

10 Stability and reactivity

· **10.3 Possibility of hazardous reactions**

No dangerous reactions known.

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- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous 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

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values relevant for classification:**

6846-50-0 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

| | | |
|------------|-----------|------------------------|
| Oral | LD50 | >3200 mg/kg (rattus) |
| Dermal | LD50 | 18900 mg/kg (caviinae) |
| Inhalative | LC50 / 6h | 5.3 mg/l (rattus) |

121-69-7 N,N-dimethylaniline

| | | |
|--------|------|--------------------------|
| Oral | LD50 | 951 mg/kg (rattus) |
| Dermal | LD50 | 1690 mg/kg (cuniculosus) |

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritant 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

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** Carc. 2

12 Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

6846-50-0 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate

| | |
|------------|---------------------------------|
| EC50 / 48h | 1.46 mg/l (daphnia) |
| LC50 / 96h | 1.55 mg/l (pimephales promelas) |

121-69-7 N,N-dimethylaniline

| | |
|------------|--------------------|
| EC50 / 48h | 8 mg/l (daphnia) |
| EC50 / 72h | 22 mg/l (alga) |
| LC50 / 96h | 53.7 mg/l (piscis) |

- **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.

- **Ecotoxicological effects:**

- **Remark:** Harmful to fish

- **Additional ecological information:**

- **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.

- **12.5 Results of PBT and vPvB assessment**

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

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.

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- **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

| | |
|---|-----------------|
| · 14.1 UN-Number · ADR | Void |
| · 14.2 UN proper shipping name · ADR | Void |
| · 14.3 Transport hazard class(es) · ADR · Class | Void |
| · 14.4 Packing group · ADR | Void |
| · 14.5 Environmental hazards: | Not applicable. |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

15 Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**
- **Please note:** Take care of the respective local regulations.
- **15.2 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**
 - H301 Toxic if swallowed.
 - H311 Toxic in contact with skin.
 - H331 Toxic if inhaled.
 - H351 Suspected of causing cancer.
 - H411 Toxic to aquatic life with long lasting effects.
 - R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
 - R40 Limited evidence of a carcinogenic effect.
 - R51/53 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
- **Abbreviations and acronyms:**
 - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 - GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - DNEL: Derived No-Effect Level (REACH)
 - PNEC: Predicted No-Effect Concentration (REACH)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent