

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY / UNDERTAKING

- 1.1 Product name:** PERGOPAK®
- 1.2 Other name:** ---
- 1.3 Manufacturer / Supplier:** Martinswerk GmbH
Kölner Str. 110
D-50127 Bergheim
Germany
- 1.4 Telephone number:** During normal office hours:
Risk Management Department Tel.: +49-2271-902-278
Quality Department Tel.: +49-2271-902-301
Other hours (emergency only):
Stand-by duty Tel.: +49-2271-902-216

2. COMPOSITION / INFORMATION ON INGREDIENTS

- 2.1 Chemical description:** Urea-formaldehyde copolymer (reaction product, condensation product) with different water contents:
- approx. 15 % H₂O (PERGOPAK M, M3, M4)
- approx. 30 % H₂O (PERGOPAK M2)
- approx. 70 % H₂O (PERGOPAK HP, FC)
- CAS No. : 68611-64-3 and 9011-05-6
EC-/EINECS No.: 271-898-1 ---
UN No.: ---
- 2.2 Hazardous ingredients:** Name: Formaldehyde
Concentration: < 0,1 %
CAS No.: 50-00-0
Symbol: None for contents < 1 % formaldehyde

- 2.3 Classification / symbol:** ---

3. HAZARDS IDENTIFICATION

The product contains no substances classified as hazardous to health in concentrations which should be taken into account.

4. FIRST AID MEASURES

- 4.1 General Information:** ---
- 4.2 Inhalation:** Move to fresh air. If symptoms persist, consult a physician.
- 4.3 Skin contact:** Wash off immediately with soap and plenty of water. In case of irritations consult a physician.
- 4.4 Eye contact:** Rinse eyes with plenty of water. If eye irritation persists, consult a specialist.
- 4.5 Ingestion:** Rinse mouth, drink plenty of water. Do not induce vomiting. Consult a physician.

5. FIRE FIGHTING MEASURES

Extinguish with carbon dioxide, dry chemical, foam or waterspray.
Wear self-containing breathing apparatus and protective suit.
In case of combustion, noxious or irritating gases may be formed.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions:** Avoid dust formation. Use personal protective equipment.
- 6.2 Methods for cleaning up:** Remove spilt product using normal cleaning devices.

7. HANDLING AND STORAGE

- 7.1 Handling:** Avoid dust formation.
- 7.2 Storage:** Keep tightly closed in a dry and well-ventilated place.
No shelf-life limitation under suitable conditions; no chemical alteration.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Components with exposure limits:**
- | | | |
|----------------|-----------------------|-------------------------------|
| CAS No.: | 50-00-0 | --- |
| Chemical name: | Formaldehyde | General dust exposure limit |
| % : | < 0,1 | --- |
| MAK: | 0.6 mg/m ³ | 6 mg/m ³ fine dust |
- 8.2 Personal protection equipment**
- 8.2.1 Respiratory protection:** Wear dust mask in the event of high concentrations.
- 8.2.2 Hand protection:** Wear impervious gloves in case of direct skin contact.
- 8.2.3 Eye protection:** Wear protective glasses in the event of high concentrations.
- 8.2.4 Skin and body protection:** Lightweight protective clothing
- 8.2.5 Hygiene measures:** General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Aspect**
- 9.1.1 Form :** Powder
- 9.1.2 Colour:** White
- 9.1.3 Odour:** Nearly inodorous
- 9.2 Safety relevant data**
- 9.2.1 Melting point:** Not meltable; thermal decomposition.
- 9.2.2 Boiling point:** ---
- 9.2.3 Flash point:** > 200 °C
- 9.2.4 Flammability/Autoflammability:** Difficult to ignite, not autoflammable
- 9.2.5 Explosive properties:** Not explosive
- 9.2.6 Vapour pressure (20°C):** Not measurable
- 9.2.7 Density (20 °C):** Approx. 1.47 g/cm³
- 9.2.8 Solubility in water:** Practically insoluble
- 9.2.9 pH value (3 % in H₂O)** Approx. 8
- 9.2.10 Viscosity:** ---

10. STABILITY AND REACTIVITY

- 10.1 **Stability:** Stable at normal conditions.
- 10.2 **Thermal decomposition:** At temperatures above 200 °C; decomposition without melting.
- 10.3 **Hazardous decomposition products:** Formaldehyde
- 10.4 **Materials to avoid:** ---
- 10.5 **Hazardous reactions:** ---

11. TOXICOLOGICAL INFORMATION

- 11.1 **General information:** In animal tests (rabbits) no eye or skin irritation was observed. Nevertheless sensitization / irritation by frequent skin contact may be possible.
The product is (e. g. in paper and board packaging materials) suitable for use with foodstuffs.
For formaldehyde: On the basis of animal tests (rats, mice) formaldehyde is considered a possible carcinogen.
- 11.2 **Acute oral toxicity:** LD50 > 5000 mg/kg (rat)
- 11.3 **Experiences from practice:** Eye irritation caused by mechanical effect.

12. ECOLOGICAL INFORMATION

- 12.1 **General information:** ---
- 12.2 **Elimination:** Product of low solubility; mechanical separation.

13. DISPOSAL CONSIDERATIONS

- 13.1 **Waste from residues / unused products:**
 - 13.2 **Contaminated packaging:**
- } In accordance with local and national regulations.

14. TRANSPORT INFORMATION

- 14.1 **ADR/RID - GGVS/GGVE:**
 - 14.2 **IMDG / GGVSee:**
 - 14.3 **ICAO-TI / IATA-DGR :**
- } Not classified as dangerous in the meaning of transport regulations.

15. REGULATORY INFORMATION

- 15.1 **Classification according to European directive on classification of hazardous preparations 90/492/EEC**
- 15.1.1 **Symbol:** ---
- 15.1.2 **Hazardous components:** ---
- 15.1.3 **R-phrases:** ---
- 15.1.4 **S-phrases.:** ---

15.2 **National regulations** ---

16. **OTHER INFORMATION** ---

16.1 **Laws, directives and recommendations** The product is in compliance with the following rules:
- Lebensmittel- und Bedarfsgegenständegesetz §§ 30 und 31
- BGVV XI
- BGVV XXXVI
- Tabakverordnung
- DIN EN 71 Part 3
- FDA 21 CFR Ch. I
- 90/128/EEC
- Warenwet

16.2 **Registration status** No other information

16.3 **Note:**

This safety data sheet deals with products which are non-hazardous substances or preparations. Therefore the EC directives mentioned in the heading do not apply to them but were used as guidelines. The safety data sheet was printed in order to meet our customers' requirements for information. As long as the classification of the products in the listings of hazardous substances is not changed, an external document control service cannot be provided.

The information contained herein is believed to be reliable and based on the current state of our knowledge. However, no guarantees of any kind can be given to its accuracy.

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