

PRODUCT INFORMATION for safe handling



ARAMID YARNS AND ARAMID FABRICS

Version 1

1. Information on the product and company

Product information

Trade name	:	ARAMID YARNS AND ARAMID FABRICS (Kevlar® / Twaron®) semi-finished products for industrial processing
Company	:	HP-Textiles GmbH Otto-Hahn-Straße 22 48480 Schapen -Germany-
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2. Possible danger

A product is not subject to classification according to Regulation (EC) No 1272/2008.

Hazard overview:

The product is not expected to present an immediate, acute health, reactivity, flammability or environmental hazard when handled/processed properly and used as intended.

Hazard overview:

- The hazards posed by this product are mainly associated with its further processing.
- May form combustible dust concentrations in the air during processing.
- Do not inhale explosion or combustion vapors. Thermal decomposition may release toxic and/or hazardous products such as carbon oxides, low molecular weight organic compounds and hydrogen cyanide in low concentrations.

3. Composition / Information on the components

The fabric consists of para-aramid yarns that contain sizing.

Komponenten	CAS	Share of the finished article
1,4-Benzenedicarbonyldichloride, polymer with 1,4-benzenediamine	26125-61-1	≤ 100 %
Water		≤ 7 %

4. First Aid measures

General: In all cases of doubt or if symptoms persist, consult a doctor.

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- Eye contact:** Product dust may cause eye irritation. Redness, tearing, pain. Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses. If eye irritation persists: Seek medical advice/attention.
- Skin contact:** Mechanical irritation due to product particles, itching, redness. Wash affected areas with soap and water.
- Inhalation:** Product dust may cause respiratory irritation and symptoms of bronchitis. Move the person to fresh air and ensure unobstructed breathing.
- Ingestion:** Rinse mouth with water. Do not induce vomiting. The product can be dangerous if swallowed, so always consult a doctor.

5. Fire-Fighting measures

Suitable extinguishing agents: Powder
Foam (alcohol-resistant) Water
spray jet Carbon dioxide (CO₂)

Not suitable. Full water jet

6. Measures in case of accidental release

Manual pick-up. Avoid dust formation or wear a dust mask. Do not allow to enter the environment. Prevent the product from entering drains, watercourses or the ground. Wear suitable protective equipment.

Collect dust and fibers with a vacuum cleaner equipped with a high-quality particle filter (HEPA), or by wet sweeping.

7. Handling and storage

Protect from damage and abrasion. Keep away from food, drink and animal feed. Store at normal room temperature, dry and dark. Protect from dirt, weather, cold, heat, sparks and naked flames, sunlight and other UV light and from mechanical and chemical stresses. The generally applicable work hygiene measures apply. Wash hands before breaks and at the end of work.

Do not eat, drink or smoke while working. Do not overheat to avoid thermal decomposition. During heat treatment at temperatures from > 130 °C the preparation application may evaporate or decompose.

Dust can form explosive mixtures with air.

8. Exposure limitation/ Personal protective measures

Ensure adequate ventilation. Fiber flight, dust and decomposition products of the sizing must be limited as much as possible by extraction and ventilation. Recirculated air must be filtered to remove respirable dusts. Electrostatic charges can cause explosions in solvent- and dust-laden atmospheres.

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Avoid inhaling dust. Wear safety goggles with side protection near high-speed yarn processing machines. Long-sleeved work clothing. Yarns that are processed at high speeds can cause abrasions and cuts.

At concentrations above the AGW values of TRGS 900 for "general dust", wear an appropriate, tested respirator.

9. Physical and chemical properties

Pare-Aramid fiber

Shape	Solid
Color	yellowish, odorless to light
Density	0.98 to 1.45 g/cm ³
Boiling point	NA
Melting point	NA
Flammability	May form combustible dust concentrations in air
Flash point	NA
Decomposition temperature	≥ 300 °C
Solubility (water)	insoluble
Solubility (sulphuric acid)	soluble

10. Stability and reactivity

Stable, no hazardous reactions when handled as intended. Avoid heat, flames and sparks.

The accumulation of dust can pose a risk of dust explosion in the presence of air.

Reacts with strong acids and strong bases.

Hazardous decomposition products are carbon dioxide, nitrogen oxides (Nox), hydrogen cyanide, ammonia (waterfree), aldehydes, hydrocarbons.

11. Toxicological information

Toxicological Effects	Toxicological data are not available
Acute Toxicity	Not determined

Risks of exposure:

Inhalation	Inhalation may cause the following symptoms: Cough, discomfort, and difficulty breathing.
Skin contact	The substance is a polymer and is not expected to cause toxic effects
Eye contact	May cause eye irritation in sensitive individuals. This product may cause burning, tearing, redness, swelling and blurred vision.
Ingestion	Swallowing large amounts of fiber can cause gastrointestinal upset and constipation, which can lead to stomach pain.

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12. Environmental information

Toxicity Not determined

This product is not biodegradable. This product is not expected to cause significant ecotoxicity in contact with aquatic organisms or aquatic eco system

13. Notes on disposal

Product residues should be disposed of in accordance with the Waste Directive 2008/98/EC and national and regional regulations. No waste code number according to the European Waste Catalog (EWC) can be determined for the product, as only the intended use by the customer enables an assignment. The waste code number must be determined within the EU in consultation with the local waste disposal company.

14. Information on Transportation

No regulations.

15. Legislation

EU - Regulations
Regulation (EC) No. 1272/2008

CLP products are not covered by the Regulation

REACH VO (EU)

1907/2006 Eventual restrictions for ingredients according to Annex XVII of the REACH Regulation do not apply to this product.

16. Other information

This information is based on our current knowledge and that of our suppliers and describes the product only with regard to safety requirements. We assume that it is correct to the best of our knowledge and belief. It does not constitute a guarantee of properties and makes no claim to completeness. They do not take into account all the circumstances under which the product may be used, nor all the physical and psychological characteristics of the persons responsible for transporting or processing the product.

According to Regulation (EC) No. 1907/2006 [REACH] Article 3(3) this product is classified as an article, therefore there is no obligation to register the ingredients or to prepare a safety data sheet as required by Article 31 of REACH. This document has been prepared voluntarily in accordance with Annex II of the regulation under the aspect of "Responsible Care"

Firma: HP-Textiles GmbH, D-48480 Schapen -Germany-	Datum: 2025-01-23 (Version 1)	Abteilung: Anwendungstechnik / QS LS / HJ
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