

Safety data sheet

According Regulation (EG) No. 1907/2006



Product: FRIALEN®, FRIAFIT®
Revised on: 01.07.2025
Version Number: 01-2025

Last Version number: 01-2011

SECTION 1: Identification of the substance or mixture and of the company

1.1 Product identifier

Product

Trade name / designation: FRIALEN® / FRIAFIT® - Sicherheitsfittings
Other designation: None
Unique Formula Identifier – UFI: None
Hazard-determining components for labelling (see footnote of the ECHA guidance)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

Connection system for gas, water, sewage, and industrial pipelines made of PE-HD. For further detailed information, please refer to the technical documentation.

Uses advised against: None

1.3 Details of the supplier of the safety data sheet

Supplier:

Manufacturer:
Aliaxis Deutschland GmbH
Steinzeugstraße 50
Deutschland, 68229 Mannheim
Telephone number: +49 (0)621 486 - 0
Email address of the competent person responsible for the SDS
National contact: info.de@alixaxis.com

1.4 Emergency telephone number

Public advice centre +49 (0)621 486 1486
Giftinformationszentrale Freiburg 0761 192 40 ... (24 h, Mo. – Su.)
E-Mail: Giftinfo@uniklinik-Freiburg.de

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008 [CLP].

Harmful physico-chemical, health and environmental effects

To the best of our knowledge, this product does not pose any particular risks.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008

No labelling required.

Signal word: None signal word

Hazard warnings

None According to the classification according to Regulation (EC) No. 1272/2008, no hazard warnings are necessary.

2.3 Other hazards

No other hazards are known.

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SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable, Substance is a product

3.2 Mixtures

Not applicable

3.2 Composition of product

Composition/ Information on ingredients

Polyethylene	Olefin Polymer The product is a polymer, according to the provisions of the Chemicals Act it does not need to be registered in the EINECS (European Inventory of Existing Commercial Chemical Substances) register.
Metals	Product-specific, may contains: iron, copper, aluminium, brass, gunmetal, stainless steel, die-cast zinc Section 16.3 lists all material standards for all metals contained in the product.
Elastomer	Elastic sealants. Section 16.3 specifies the reference standard for the installed O-rings.
Lubricants	Trace amounts of grease.
POM	Polyoxymethylene in small quantities.

All raw materials and precursors used are suitable and approved for use with drinking water or gas.

Substances with Union workplace exposure limit values

unknown.

The wording of the coded classification and hazard statements can be found in Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

After inhalation: If exposed to aerosol, smoke, or vapours from heated or burning products, remove affected persons to fresh air. Consult a doctor if symptoms occur.

After skin contact: After splashing the hot, liquid product, cool the burned areas with water for 10–15 minutes. Do not remove solidified product from the skin. In case of severe burns, transport the victim to a hospital immediately.

After eye contact: If the hot, liquid product is splashed, cool eyes with cold water. Transport the victim to the hospital immediately.

4.2 Most important symptoms and effects, both acute and delayed

No symptoms or effects are known so far.

4.3 Indication of any immediate medical attention and special treatment needed

none

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water, foam, dry chemical, carbon dioxide. In case of fire, cool adjacent equipment with foam or water.

Unsuitable extinguishing media: none known.

5.2 Special hazards arising from the substance or mixture

Dangerous combustion products:

In case of fire: With oxygen supply, carbon dioxide (CO₂) and water vapor; with oxygen deficiency, predominantly: carbon monoxide (CO), soot and cracking products: aldehydes, ketones, hydrocarbons and volatile fatty acids.

5.3 Advice for firefighters

Wear self-contained breathing apparatus in case of heavy smoke or vapor development.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Non-emergency personnel: take to safety.

Emergency services: Wear breathing apparatus when exposed to vapours, dusts, aerosols and gases.

6.2 Environmental precautions

Not applicable.

6.3 Methods and material for containment and cleaning up

Retention or sealing methods: Covering the sewers, mechanically collecting.

Settlement procedure: Mechanical recording.

Other information: Place in suitable containers for disposal.

6.4 Reference to other sections (in safety data sheet)

Hazardous combustion products: see Section 5. Personal protective equipment: see Section 8.

Incompatible materials: see Section 10. Disposal information: see Section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

See assembly instructions

Protective measures:

Measures to prevent fires: Process product according to instructions.

Measures to prevent aerosol and dust formation: Not applicable.

Measures to protect the environment: Not applicable.

Advice on general hygiene in the workplace: Wash hands after handling. Do not eat, drink, or smoke in work areas.

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7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

At a maximum ambient temperature of 50°C, in original containers (cartons/polybags). Store indoors in a dry place away from direct sunlight. Do not store near highly flammable materials. Do not store near heaters.

Storage of pallets: Two pallets can be stacked on top of each other, provided all safety regulations are observed, provided the surface permits. Caution: Heavy pallets on the bottom, light pallets on top. Note: In this case, a pallet refers to the actual pallet, including the load. Before placing pallets in/on shelves, check that they fit in/on the shelves. The product is stable during storage and does not require any additional preservation measures.

Packaging materials:

Cardboard, Films

Requirements for storage rooms and containers: None

Instructions for joint storage: none

Storage class: None

Substances to be avoided: none

Further information on storage conditions: none

7.3 Specific end use(s)

Recommendations: See price lists, article lists, technical documents.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No information.

8.2 Exposure controls

Suitable technical control devices: general ventilation.

Personal protective equipment

Eye / face protection:

Suitable eye protection: Wear safety goggles.

Other eye protection measures: None

Skin protection: Wear protective gloves.

Preventive skin protection (protective creams/ointments) is recommended.
Wash hands thoroughly after use

Body protection: no special body protection necessary.

Respiratory protection: not under normal use.

Thermal hazards: None

Limitation and monitoring of environmental exposure

To avoid environmental contamination, use suitable containers. Prevent product from entering drains or surface and ground water.

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SECTION 9: Physical and chemical properties

9. Information on basic physical and chemical properties

	Parameter	Comment
a)	State of matter	solid
b)	Colour	Black coloured (~ 2% lampblack)
c)	Odor	odourless
d)	Melting point / range(°C)	between 110 up to 160
e)	Boiling point or initial boiling point and boiling range	No information available
f)	Flammability	No information available
g)	Lower explosion limit (kg/m³)	0,015
h)	Flash point (°C)	+/- 340
i)	Autoignition temperature (°C)	> 350
j)	Decomposition temperature	No information available
k)	pH-Wert	No information available
l)	Kinematic viscosity	No information available
m)	Solubility in water at 20° C (mg/	Insoluble
n)	Partition coefficient n-octanol/water (log-Wert)	No information available
o)	Vapor pressure at 20°C (hPa)	No information available
p)	Density at 20° C (kg/m3)	between 910 up to 990 (ISO 1183)
q)	Relative vapor density	No information available
r)	Particle properties	No information available

9.2 Other information

Information on physical hazard classes: Not required.

Other safety-related parameters: Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity: No information available.

10.2 Chemical stability: Stable under normal conditions (storage, handling and use).

10.3 Possibility of hazardous reactions: None

10.4 Conditions to avoid

Avoid contact with strong oxidizing agents and fluorine.
Avoid open flames and other ignition sources.
Do not store in direct sunlight.
Do not store without a polybag/carton.

10.5 Incompatible materials

Unknown

10.6 Hazardous decomposition products

Unknown

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Polyolefins are biologically inert.

Corrosive/irritating effects on the skin: Due to its composition, this product is unlikely to cause irritation. Contact with hot product may cause severe burns. Products resulting from thermal decomposition may cause irritation at elevated temperatures.

Serious eye damage/irritation: Due to its composition, this product is unlikely to cause irritation. Splashes of the molten product may cause eye injuries. Products resulting from thermal decomposition may cause irritation at elevated temperatures.

Respiratory or skin sensitization:

LOCAL TOXIC EFFECTS

Above 235°C, smoke/vapour may cause irritation of the respiratory tract, coughing or shortness of breath.

Sensitization of the respiratory tract and skin: Not classified as an inhalation or skin allergen.

11.2 Information on other hazards

No additional information is available.

SECTION 12: Ecological information

12.1 Toxicity: no data available

12.2 Persistence and degradability

Biodegradability: The product biodegrades very slowly. BOD 5 (gO₂/g): Below the detection limit

12.3 Bioaccumulative potential: no data available.

12.4 Mobility in soil: no data available

12.5 Results of PBT and vPvB assessment: no data available

12.6 Endocrine disrupting properties: no data available

12.7 Other adverse effects: no data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product/packaging disposal:

Disposal must be carried out in accordance with local regulations. The product must be recycled or disposed of in accordance with the regulations of the German Recycling and Waste Management Act. The product can be recycled as residue. The product can be incinerated in facilities approved under the Federal Emission Control Act.

The product and packaging can be disposed of in accordance with the regulations.

Waste code / waste designation according to AVV:
07 02 13, 16 01 19, 17 02 03, 20 01 39 u. 20 01 06 Plastics.

SECTION 14: Transport information

14.1 UN number or ID number: Not applicable.

14.2 UN proper shipping name

ADR/RID: Not applicable.

IMDG-Code / ICAO-TI / IATA-DGR: Not applicable.

14.3 Transport hazard class(es)

ADR / RID / IMDG-Code / ICAO-TI / IATA-DGR: Not applicable.

14.4 Packing group: Not applicable.

14.5 Environmental hazards

Label for environmentally hazardous substances

ADR/ RID / IMDG-Code ☐ yes / ☒ no

ICAO-TI / IATA-DGR: ☐ yes / ☒ no

14.6 Special precautions for user: None

14.7 Maritime transport in bulk according to IMO instruments:

The cargo is not transported as bulk cargo.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulation

The main component of the product is a polymer. According to the provisions of the Chemicals Act, it does not need to be registered in the EINECS (European Inventory of Existing Commercial Substances) register.

Approvals and/or restrictions on use: None

Information on employment restrictions: None

Other EU regulations: None

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National regulations (Germany)

Information on employment restrictions: Observe the Act on the Protection of Mothers at Work, in Training, and in Studies (MuSchG). Observe the Youth Employment Protection Act (JArbSchG).

Water hazard class: not hazardous to water.

Product registrations Germany: Complies with the generally applicable DVGW approval and registration conditions for gas/water.

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this substance.

SECTION 16: Other information

16.1 Change notices: None

16.2 Abbreviations and acronyms: None

16.3 Important references and data sources

Material	Norm
Copper	EN 1057
Brass	EN 12165 / EN 12168 / EN 12164
Gunmetal	EN 1982
Steel	EN 10278 / EN 10277-3 / EN 10131 / DIN EN 10130 DIN 2448 was replaced by EN 10220:2003
Stainless Steel	EN 10278 / EN 10088-3
Moulding	DIN EN 1560 / DIN EN 1563
Wires	EN 13602 / EN 60317-26 / EN 573-3 / DIN 17471
O-rings	DIN EN 681-1 / DIN EN 682

16.4 Classification and procedure used to derive the classification of mixtures according to Regulation (EC) No 1272/2008 [CLP]: no mixture according to CLP.

16.5 List of relevant hazard statements and/or precautionary statements from Sections 2 to 15.

- Contact with hot product can cause severe burns. Products resulting from thermal decomposition can cause irritation at elevated temperatures.
- Splashes of molten product can cause eye injuries.
- Products resulting from thermal decomposition can cause irritation at elevated temperatures.
- LOCAL TOXIC EFFECTS
- Above 235°C, fumes/vapours can cause respiratory irritation, coughing, or shortness of breath.

16.6 Additional information's

This safety data sheet applies exclusively to the supplied products FRIALEN®, FRIAFIT® safety fittings, according to the specification of Aliaxis Deutschland GmbH.