



*Issue: 01-2011 revised: 05.01.2021 print date: 20.01.2021

1.	Description	of company,	materials c	and preparation

Trade description FRIALEN / FRIAFIT safety fittings

Product type Connection systems for gas, water, sewage and

industrial pipe systems made from HD-PE and PE-Xa Please refer to the technical documents for further,

detailed information.

Composition - low pressure polyethylene

- metals

- elastomers, alternatively in small amounts

- sealing agents, alternatively in smallest amounts

- lubricants, alternatively in smallest amounts

- POM, alternatively in small amounts

RESPONSIBLE FOR THE CONTENT

Name of Company Aliaxis Deutschland GmbH

2. Composition / Specification of components

Polyethylene Olefin Polymer

The product is a polymer which does not need to be registered with EINECS (European Inventory of Existing Commercial Chemical Substances) according to guidelines in chemical law.

Metals Alternatives: iron, copper, aluminium, brass,

gunmetal, stainless steel, cast zinc

Elastomeres Elastic sealing agents, suited to drinking water

Sealing agents / adhesives Adhesive agents in smallest amounts, hardened

Lubricants Traces of grease, suited to drinking water

POM Polyoximethylene in small amounts

Harmful components None to our knowledge

3. Potential Dangers

Specific dangers

None to our knowledge

Symptoms caused by inhalation Above 235°C it is possible that smoke/steam may

lead to irritation, cough or shortness of breath.

Symptoms caused by skin contact Contact with the hot product can cause severe

burns.

Effects on the environment Due to its structure the product does not impose

any danger on waterways.

Not biodegradable.

Harmful physical-chemical effects inflammable





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4. First Aid Measures	
Solutions	
following inhalation	Take affected people outside following the effects of aerosol, smoke or steam of heated or burning products. Consult doctor if unwell.
following skin contact	Cool areas burnt by splashes of the hot, liquid product in water for 10 – 15 minutes
	Do not remove deposits of the hardened product from skin. If burns are severe, the injured person needs to be sent to hospital immediately.
following eye contact	
	If splashes of hot, liquid product have affected the eye, cool eyes with water immediately. The injured person needs to go to hospital immediately.
5. Fire fighting Measures	
Fire Grade	Α
Technical Measures	Remove all flammable material from the danger zone.
	Call fire brigade immediately.
	Remove bystanders from the danger zone.
	The fire brigade needs to be equipped with protective suits and breathing apparatus.
Suitable extinguishing substances	Water, foam, dry extinguishing substances, carbon dioxide.
	In the event of a fire, neighbouring plants must be cooled using foam or water.
Unsuitable substances	None known.
Dangers	In the event of a fire: where there is added oxygen: carbon dioxide (CO2) and water vapour; where there is lack of oxygen mainly: carbon monoxide (CO), soot and crack products: aldehyde, ketones, hydrocarbon and volatile fatty acids
Protective measures	Breathing apparatus which resistant to the ambient air must be worn if there is a great deal of smoke or steam
6. Measures on accident release	not applicable
7. Handling and Storage	
Handling	Refer to assembly instructions
Storage	In original packaging (cardboard boxes / plastic bags) up to 50° C ambient temperature.
	Store in enclosed rooms, dry without direct sunshine.
	Do not store near easily flammable materials.
	Do not store near radiators.





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Storage of pallets If the ground permits, two pallets may be stored on top of one another if all safety rules have been

observed.

NB: place heavy pallets at the bottom, light ones at

the top.

Note: by pallet is meant the actual pallet including

the load.

Before placing pallets in/on shelves check that the

pallets will fit in/on shelves.

The product is designed to be stored and does not require any additional preservation measures.

VbF - hazard grade Not applicable

Refer to price lists, article lists, technical documents.

8. Exhibition limit and personal protective equipment

Exhibition limit Not applicable

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Limit and supervision of environmental exhibition Not applicable / does not need to be marked

9. Physical and chemical specifications

Physical state at 20° C Solid

Colour Black dye (approx. 2% soot)

Odour Odourless

Important indications for the protection of personal health and the environment as well as safety

Polyethylene:

Change of consistency at 1013 hPa

Melting range (°C) * From 110 to 160

Point of ignition (ASTM D 1929) (°C) +- 340 Temperature of self ignition (°C) * > 320 Lower explosion values (kg/m3) 0.015 mm

Minimum ignition energy at 20° C 9MJ) Steam pressure at 20° C (hPa) None

Density at 20°C (kg/m3) From 910 to 990 (ISO 1183)

Solubility in water at 20°C (mJ) Not soluble pH value (concentrated product) Not applicable





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10. Stability and Reactivity	
Stability	Stable under normal conditions (during storage, handling and use)
CONDITIONS TO BE AVOIDED	Avoid contact with strong oxidation agents and fluoride.
	Avoid open flames and other sources of ignition.
	Do not store in direct sunlight.
	Do not store without plastic bag / cardboard box.
11. Indications regarding toxicology	
Acute toxicity	Polyolefins are biologically inert
Inhaling	Local toxic effects
	Above 235°C smoke/steam can cause breathing irritations, cough or shortness of breath.
Skin contact	Due to its composition, it is unlikely this product will cause irritation
	Contact with hot product can cause serious burns.
	Products which result from thermal disintegration may cause irritation at increased temperatures.
Eye contact	Due to its composition, it is unlikely this product will cause irritation.
	Splashes of the molten product may lead to burning in the eyes.
	Products which result from thermal disintegration may cause irritation at increased temperatures.
SPECIAL EFFECTS	Components are largely biologically inert.
	When working with this product it is not necessary to take any preventative medical measures.
12. Indications regarding Ecology	
Indications regarding ecology	Observe principles of industrial hygiene, do not allow to reach the environment without being controlled.
Persistence and Degradability	
Biodegradability	
	The product will biodegrade only very slowly.
BSB 5 (gO2/g)	Below detectable limit
Ecotoxicity	Based on the structure it is unlikely that this product poses any danger to our waterways.
Indications regarding ecology	Observe principles of industrial hygiene, do not allow to reach the environment without being controlled.





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13. Indications for disposal		
Waste disposal	Observe local legal advice when disposing. The product must be recycled or disposed of in line with waste regulations and cycle waste management.	
	The product can be recycled as residue.	
	The product can be incinerated in plants which have been authorised in line with the federal emission protection law.	
	The product can be deposited in line with regulations.	
Waste code – EG No.	07 02 13, 16 01 19, 17 02 03m 20 01 39 and 20 01 06 plastics	
API (Association of Plastic Industry) Code	2 HD-PE: low pressure polyethylene	
14. Indications regarding Transport		
GGVS (ADR) / GGVE (RID)	Non-hazardous goods	
UN Number	Not applicable	
GGV See (IMO-IMDG)	Non-hazardous goods	
ICAO / IATA air traffic	Non-hazardous goods	
15. Regulations		
Marking and EG categorisation		
EG Symbol(s)	Non hazardous material according to hazardous material legislation and guidelines 67/548/EWG (hazardous materials) and 1999/45/EG (dangerous preparations).	
Product registrations Germany	Corresponds to the standard valid DVGW authorisation and registration conditions for gas/water	
Endangering waterways grade	NWG: does not endanger waterways. Categorisation according to the general administration regulation regarding water services law with regards to the categorisation of hazardous materials into water endangering grades (VwVwS)	





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Polymer Registration	The main component of the product is a polymer. According to the regulation of the chemical law it does not need to be registered in the EINECS (European Inventory of Existing Commercial Substances).
	Registered in the US toxic substances register TSCA (Toxic Substances Control Act).
	Registered in the Canadian hazardous substances register DSL (Domestic Substances List).
	Registered in the Japanese hazardous substances register (Existing & New Chemical Substances) No. 6-1.
	Registered in the Australian hazardous substances register AICS (The Australian Inventory of Chemical Substances).
	Registered in the Korean hazardous substances register ECL (Existing Chemical List). Serial No: KE-28877.
	Registered in the Philippine hazardous substances register PICCS (Philippine Inventory of Chemicals and Chemical Substances).
	Registered in the Swiss hazardous substances register (IGS toxins list) No: G-9232 BAG T-No: no need to be marked
Registration of other components:	Individual registration not required.

This data sheet applies solely to FRIALEN/FRIAFIT safety fittings supplied, according to the specification by Aliaxis Deutschland GmbH.

The information contained in this data sheet is published in good faith and is based on the latest knowledge at the time of printing, Individual indications are being reviewed.

The user is pointed to the potential risks when using the products in a different way from original specification. This data sheet must be used and photocopied only for reasons of prevention and safety. The list of legislation, regulations and administrative guidelines should not be regarded as complete. The recipient of the products needs to look at all the official texts regarding use, storage and handling of the product, for which he is solely responsible.

The user of the product is obliged to hand over to all persons who are involved in any way with this product (e.g. use, storage, different applications) all necessary information for work safety, environmental and personal protection as set down in this datasheet.

(*) changes from previous version.