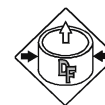


POROPLAST DATA SHEET

according to regulation (EC) Nr. 1907/2006

11/2018



Tradename: POROPLAST HD/UHMW-PE

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

1.1. Product identifier

Product name

POROPLAST microporous UHMW/HD Polyethylene

The following SDS applies to products described by combinations of the following trade name, product grade listed below.

Product type(s): 101, 111, 112, 114, 120, 150, 152, 155, 170, 170.3, 178, 180, 187, 189, 309, 161, 162, 163, 164, 165, 167, 212, 470, 472, 475

REACH Registration Number

This product is a mixture and therefore not directly subject of the registration requirements under REACH.

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

Identified uses

Plastic processing industry.

SDS Contact (email of responsible person)

info@durst-filtertechnik.de

1.3. Details of the supplier of the safety data sheet

Alfred Durst Filtertechnik GmbH

Carl-Benz-Str 3

74354 Besigheim

Germany

1.4. Emergency telephone number

0049 (0)7143/548-0

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation 1272/2008/EC (CLP)

Not a hazardous substance or preparation according to Regulation 1272/2008 (CLP)

2.2. Label elements

Not required

2.3 Other Hazards

The mixture does not meet the criteria for PBT / vPvB according to REACH, Annex XIII

POROPLAST DATA SHEET

according to regulation (EC) Nr. 1907/2006

11/2018



SECTION 3: Composition/information on ingredients

Chemical characterization, High Molecular Weight Polyethylene (HMW-PE);
Ultra High Molecular Weight
Polyethylene (UHMW-PE); Ethylene, polymer CAS-RN. basic polymer: 9002-88-4

3.1. Substances

not applicable

3.2. Mixtures see Chemical characterization

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move to fresh air in case of accidental inhalation of dust. Get medical attention immediately if symptoms occur.

Skin Wash off with soap and water. Cool skin rapidly with cold water after contact with molten polymer. If symptoms persist, call a physician.

Eyes Immediately flush eye(s) with plenty of water. Call a physician if irritation persists.

Ingestion If swallowed, do not induce vomiting - seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Main symptoms None known

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water, Foam, Dry powder

Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Carbon monoxide

Carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for fire-fighters Wear self-contained breathing apparatus and protective suit.

Keep people away from and upwind of fire. Potential dust explosion hazard.



SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe dust. Avoid dust formation.

6.2. Environmental precautions

No special precautions required.

6.3. Methods and material for containment and cleaning up

Avoid dust formation. Potential dust explosion hazard. Remove all sources of ignition. Do not create a powder cloud by using a brush or compressed air. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

6.4. Reference to other sections

Consult trained personnel. Consider the information for "Personal Protection" in chapter 8 of this Safety Data Sheet.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Hygiene measures

Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

Advice on safe handling.

Do not handle hot or molten material without appropriate protective equipment. Do not exceed recommended process temperatures to minimize release of decomposition products. Maintain good housekeeping in work areas. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Incompatible products

Halogene, strong oxidizing agents, Aromatic solvents

Protection - fire and explosion:

Do not smoke in areas where polymer dust is present. Appropriate measures should be taken to control the generation and accumulation of dust during conveying and processing operations. All equipment used when handling the product must be grounded. Ground and bond containers when transferring material. Take measures to prevent the build up of electrostatic charge. Emptying of bags of powder directly into vessels where flammable vapors exist should be strictly prohibited because static discharges can be generated of sufficient strength to produce an explosion. Use explosion-proof equipment.

Dust Explosion Group

ST1

POROPLAST DATA SHEET

according to regulation (EC) Nr. 1907/2006

11/2018



7.2. Conditions for safe storage, including any incompatibilities

Material storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible products

Halogene, strong oxidizing agents, Aromatic solvents

Technical measures/Storage conditions

No special storage conditions required. Avoid UV light.

German storage class

11: Combustible solids

7.3. Specific end use(s)

None known

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

EC Exposure Limit Values

No exposure limits established.

DNELs

This product is a mixture and therefore not directly subject of the registration requirements under REACH.

PNECs

This product is a mixture and therefore not directly subject of the registration requirements under REACH.

8.2. Exposure controls

Engineering measures

General: May not be adequate as the sole means to control employee exposure.

Local Exhaust: Recommended when appropriate to control employee exposure to dust or process vapors.

Personal protective equipment

Hygiene measures

Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

Eye protection

safety glasses

Skin protection

protective suit

Hand protection

protective gloves

POROPLAST DATA SHEET

according to regulation (EC) Nr. 1907/2006

11/2018



Suitable material

Butyl-rubber

Type

Butoject (Company KCL) or comparable article;
or refer to glove manufacturer's recommendation

Evaluation

according to EN 374: level 6

Material

thickness approx. 0,3 mm

Break through time

480 min

Environmental exposure controls

Do not discharge into the drains/surface waters/groundwater

Environmental Precautions

Should not be released into the environment

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Form	plates shapes
Odor	slight , specific
Flash point	Not applicable
Ignition temperature	350°C
Density approx	0,92- 0,95 g/ml @ 25°C
Method	EN ISO 1183-1, A
Water solubility	insoluble

9.2. Other information The product was not tested for properties not listed on the SDS.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical Stability

Thermal decomposition can take place above 330°C.

10.3. Possibility of hazardous reactions

None anticipated.

POROPLAST DATA SHEET

according to regulation (EC) Nr. 1907/2006

11/2018



10.4. Conditions to avoid

Flame . Avoid prolonged heating at or above the recommended processing temperature .
Fine powder may present a dust explosion hazard. Appropriate measures should be taken to control the generation and accumulation of dust during conveying and processing operations.
Electrical grounding of equipment and the minimization of ignition sources is required when handling powder to avoid possible dust explosion.

10.5. Incompatible Materials

Halogens, strong oxidizing agents, aromatic solvents

10.6. Hazardous decomposition products

No hazardous decomposition products are known

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological data are not available. When handled appropriately, even after long years of experience with this product, no adverse health effects are known.

SECTION 12: Ecological information

Ecotoxicity: Ecotoxicological data are not available.

Environmental Fate/Information:

This material is considered to be non-biodegradable.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product information

Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleaning may be taken for reuse.

European Waste Catalogue 150102:

Packages from plastics

SECTION 14: Transport information

ADR/RID Not regulated
ADN Not regulated
ICAO/IATA Not restricted
IMDG Not regulated

POROPLAST DATA SHEET

according to regulation (EC) Nr. 1907/2006

11/2018



SECTION 15: Regulatory information

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

Water Hazard Class (WGK): not water endangering

WGK Reg. No. 766

WGK Source Classification according to VwVwS, Annex 1 or 2

15.2 Chemical Safety Assessment

Chemical Safety Assessment (CSA) is not required

SECTION 16: Other information

Color code 80/3500, NATUR, NATURAL

Other Information:

- Observe national and local legal requirements

DURST Filtertechnik GmbH

Product Safety

This information applies to the PRODUCT AS SUCH and conforming to specifications of *DURST Filtertechnik GMBH* and partners.

In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear. The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. However the revision of some data is in progress.

Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes. The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive.

It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product.

It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product. (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.

Source of information: Clariant Chemicals