

MATERIAL SAFETY DATA SHEET

Filaflex 60A 'Pro'

1. Product and company identification

1.1. Trade name

Filaflex 60A® 'Pro'

1.2. Company details

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2. Hazards identification

2.1. Classification of the substance or mixture:

According to Regulation (EC) No 1272/2008 [CLP]

No need for classification according to GHS criteria for this product.

2.2. Label elements:

Globally Harmonized System, EU (GHS)

The product does not require a hazard warning label in accordance with GHS criteria.

2.3. Other hazards

According to Regulation (EC) No 1272/2008 [CLP]

No specific dangers known, if the regulations/notes for storage and handling are considered.

3. Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Chemical nature

Polymer based on: polyurethane, stabilizing agents, additives, aliphatic carboxylic ester.

Hazardous ingredients (GHS)

According to Regulation (EC) No. 1272/2008.

Does not contain any hazardous ingredients.

4. First-aid measures

4.1. Description of first aid measures

Remove contaminated clothing.

In case of inhalation: Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

In case of skin contact: Burns caused by molten material require hospital treatment.

In case of eye contact: In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. If irritation develops, seek medical attention.

In case of ingestion: Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention.

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

Symptoms: No significant reaction of the human body to the product known.

Hazard: No hazards anticipated.

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

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray, foam, dry powder, carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Carbon monoxide, carbon dioxide, hydrogen cyanide; hydrocyanic acid, nitrogen oxides, isocyanate.

The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

Special protective equipment: Wear a self-contained breathing apparatus.

Further information: Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental Release Measures

High risk of slipping due to leakage/spillage of product.

6.1. Personal precautions, protective equipment and emergency procedures

No special precautions necessary.

6.2. Environmental precautions

No special precautions necessary.

6.3. Methods and material for containment and cleaning up

For small amounts: Sweep/shovel up.

For large amounts: Sweep/shovel up.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling

Provide suitable exhaust ventilation at the drying process and in the area surrounding the melt outlet of processing machines.

Protection against fire and explosion: No special precautions necessary.

7.2. Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Suitable materials for containers: Paper/Fibreboard, High density polyethylene (HDPE), Low density polyethylene (LDPE).

Further information on storage conditions: Keep container tightly closed. Protect against moisture.

7.3. Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8. Exposure controls/personal protection

8.1. Control parameters

Components with occupational exposure limits

The substances mentioned are contained only in traces in the product.

101-68-8: 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-diisocyanate.

PNEC

No PNEC value available.

DNEL

No DNEL value available.

8.2. Exposure controls

Personal protective equipment

Respiratory protection: Breathing protection if breathable aerosols/dust are formed.

Hand protection: Hand protection not required.

Eye protection: Eye protection not required.

Body protection: Body protection not required.

General safety and hygiene measures

Wearing of closed work clothing is recommended. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form:	Granules.
Colour:	Transparent to opaque.
Odour:	Odourless.
Odour threshold:	Not applicable.
pH value:	Not applicable.
Softening temperature:	> 120 °C.
Boiling temperature:	The product is a non-volatile solid.
Sublimation point:	No applicable information available.
Flash point:	Not applicable.
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.
Flammability:	Not flammable (Directive 92/69/EEC, A.10).
Lower explosion limit:	For solids not relevant for classification and labelling.

Upper explosion limit:	For solids not relevant for classification and labelling.
Ignition temperature:	> 400 °C
Vapour pressure:	Not applicable.
Density:	Approx. 1.1 - 1.2 g/cm ³ (20 °C).
Relative density:	Approx. 1.1 - 1.2 g/cm ³ (20 °C).
Relative vapour density (air):	Not applicable.
Solubility in water:	Insoluble.
Partitioning coefficient n-octanol/water (log Kow):	Not applicable
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated. > 230 °C: Thermal decomposition above the indicated temperature is possible. Prolonged thermal loading can result in products of degradation being given off.
Viscosity, dynamic:	Not applicable.
Explosion hazard:	Not explosive.
Fire promoting properties:	Not fire-propagating.

9.2. Other information

Self heating ability:	It is not a substance capable of spontaneous heating.
Bulk density:	500 - 700 kg/m ³ (20 °C).
Other Information:	If necessary, information on other physical and chemical parameters are indicated in this section.

10. Stability and reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals: No corrosive effect on metal.

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.

Conditions to avoid

No conditions to avoid anticipated.

Incompatible materials

Substances to avoid: No substances known that should be avoided.

Hazardous decomposition products

Gaseous products of degradation can be given off if the product is greatly overheated.

Possible thermal decomposition products: Carbon monoxide, carbon dioxide, hydrogen cyanide; hydrocyanic acid isocyanates, nitrogen oxides.

11. Toxicological information

Acute toxicity

Assessment of acute toxicity:

Virtually nontoxic after a single skin contact. Virtually non toxic by inhalation. Virtually non toxic after a single ingestion.

Experimental/calculated data:

LD50 rat (oral): > 5,000 mg/kg

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Irritation

Assessment of irritating effects:

Not irritating to the eyes. Not irritating to the skin. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Respiratory/Skin sensitization

Assessment of sensitization:

The chemical structure does not suggest a sensitizing effect.

Germ cell mutagenicity

Assessment of mutagenicity:

The chemical structure does not suggest a specific alert for such an effect.

Carcinogenicity

Assessment of carcinogenicity:

The chemical structure does not suggest a specific alert for such an effect.

Reproductive toxicity

Assessment of reproduction toxicity:

The chemical structure does not suggest a specific alert for such an effect.

Developmental toxicity

Assessment of teratogenicity:

The chemical structure does not suggest a specific alert for such an effect.

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

Repeated exposure to the substance by dermal administration leads to effects similar to those found after single exposure. Repeated exposure to the substance by inhalative administration leads to effects similar to those found after single exposure. Repeated exposure to the substance by oral administration leads to effects similar to those found after single exposure.

Aspiration hazard

No aspiration hazard expected.

Other relevant toxicity information

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

12. Ecological information

12.1. Toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Poorly biodegradable.

Elimination information:

Poorly biodegradable.

12.3. Bioaccumulative potential

Assessment bioaccumulation potential:

Does not significantly accumulate in organisms.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: Due to the product characteristics the test is impossible.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria.

12.6. Other adverse effects

The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

12.7. Additional information

Adsorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

13. Disposal considerations

13.1. Waste treatment methods

Can be used without re-conditioning.

May be disposed of or combusted with domestic refuse according to local regulations.

Waste key:

07 02 13 waste plastic

Contaminated packaging:
Completely emptied packaging can be given for recycling.

14. Transport information

Land transport

ADR

Not classified as a dangerous good under transport regulations.

UN number:	Not applicable.
UN proper shipping name:	Not applicable.
Transport hazard class(es):	Not applicable.
Packing group:	Not applicable.
Environmental hazards:	Not applicable.
Special precautions for users:	None known.

RID

Not classified as a dangerous good under transport regulations.

UN number:	Not applicable.
UN proper shipping name:	Not applicable.
Transport hazard class(es):	Not applicable.
Packing group:	Not applicable.
Environmental hazards:	Not applicable.
Special precautions for users:	None known.

Inland waterway transport

ADN

Not classified as a dangerous good under transport regulations.

UN number: Not applicable.
UN proper shipping name: Not applicable.
Transport hazard class(es): Not applicable.
Packing group: Not applicable.
Environmental hazards: Not applicable.
Special precautions for users: None known.

Transport in inland waterway vessel

Not evaluated.

Sea transport

IMDG

Not classified as a dangerous good under transport regulations.

UN number: Not applicable.
UN proper shipping name: Not applicable.
Transport hazard class(es): Not applicable.
Packing group: Not applicable.
Environmental hazards: Not applicable.
Special precautions for users: None known.

Air transport

IATA/ICAO

Not classified as a dangerous good under transport regulations.

UN number: Not applicable.
UN proper shipping name: Not applicable.

Transport hazard class(es):	Not applicable.
Packing group:	Not applicable.
Environmental hazards:	Not applicable.
Special precautions for users:	None known.

14.1. UN number

See corresponding entries for “UN number” for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for “UN proper shipping name” for the respective regulations in the tables above.

14.3. Transport hazard class(es)

See corresponding entries for “Transport hazard class(es)” for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for “Packing group” for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for “Environmental hazards” for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for “Special precautions for user” for the respective regulations in the tables above.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation: Not evaluated.

Shipment approved: Not evaluated.

Pollution name: Not evaluated.

Pollution category: Not evaluated.

Ship Type: Not evaluated.

15. Regulatory information

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

Prohibitions, Restrictions and Authorizations

If it is intended to use materials for the manufacture of consumer goods (e. g. products which will come into contact with foodstuffs or with the skin, toys) or medical products, national and international regulations have to be observed. Where no regulations exist, consumer goods or medical products must at least comply with European legislation. We recommend contacting our Sales and our Product Safety departments.

15.2. Chemical Safety Assessment

Product is not classified as hazardous.

16. Other information

Trademark potentially not registered in all countries.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

Disclaimer

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