

Uniclass - : P71	EPIC - : X71
Cl/SfB	Ln6 (K2)

COSHH Health & Safety Data

Reinforced polyethylene sheeting with aluminium

Revision 3.0

	Reinforced polyethylene products incorporating aluminium
Hazard classification	Non hazardous
Components	LDPE reinforced with HDPE and Aluminium
General information	Form: solid, flexible - Colour: black - Odour: odourless - Hazardous Ingredients: none

1. Hazards Identification	
General Information	Low risk: Product can only form ignitable mixtures or burn if it is heated to temperatures above the flash point.
Warming	When warming the product, sufficient ventilation should be provided. In certain cases, extractor-fans should be installed directly on the machines.
Overheating	Incorrect processing of polyolefins can lead to the formation of low molecular decomposition products. It is therefore important to prevent overheating of the molten material (see also section 8).
Fire Hazard	Toxic gases are produced during burning (see also section 3)
Sparking	Risk of electrostatic charging. Product can be electrostatic charged, which can lead to an ignitable electrical discharge. All production machines must be grounded correctly.
Danger of Slipping	Material lying on the floor can cause a danger of slipping.

2. First Aid Measures	
Inhalation	Inhalation of fumes: Remove patient from exposure, keep warm and at rest. Use suitable respiratory protection measures. If breathing is irregular or if it has stopped, proceed with artificial respiration. Obtain medical attention.
Eye Contact	This product is an inert solid. In case particles come into the eye, remove by irrigating with eye wash solution or clean water holding the eyelids apart. Obtain medical attention.
Skin Contact	With hot product: Cool the affected areas with plenty of cold water. Cover with a clean cloth or sterile gauze and call immediate for medical help. Do not try to remove the product from the skin or remove soiled clothing as this may cause the injured skin tissue to be torn off.
Ingestion	First aid is normally not necessary.

3. Fire-fighting Measures	
Hazardous Gases	Combustion or thermal decomposition will involve toxic and corrosive vapours: Carbon monoxide (CO), Acetic acid (irritant), Smoke
Extinguishing Media	Water, Foam, Dry powder, Carbon dioxide
Fire-fighting Protective Equipment	In the presence of combustion or carbonisation gases, any fire fighting, rescue and clearing up activities should be undertaken only with heavy-duty respiratory and eye protection equipment (see also sections 1, 6 and 8).

4. Accidental Release Measures	
General Information	No special measures required. Collect the product in suitable containers and either recycle or dispose of. Seek expert advice when disposing of collected material. Observe to the legal requirements for waste disposal (see also section 1, 6, 8). Caution when walking over films on the floor. Danger of slipping!

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5. Handling and Storage	
Handling	Avoid contact with naked flames and hot surfaces as irritant and toxic decomposition products can be formed.
Storage Temperature	Ambient temperature
Transport Temperature	Ambient temperature
Loading and Unloading Temperature	Ambient temperature
Storage and Transport Pressure	Atmospheric
Risk of Electrostatic Charging	Take measures against electrostatic charging.
Normal form of Transportation	On pallets or goods wagons
Safe Storage	Storage on pallets in dry, enclosed rooms with solid foundation. Stack loose bales in containers, racks or secure using wedges. Pallets with lying bales must not be stacked. Upright bales can be stacked up to a maximum of 3 high. Stack products in cardboard boxes up to a maximum height of 5.5 m.

6. Exposure Control / Personal Protection	
Personal Protection Equipment	If contact with hot material is possible, wear heat proof clothes, arm- and face shields. If the ambient air concentrations exceed the above mentioned normal value in spite of the technical safety measures, further measures should be taken to extract the fumes. In other cases (where not possible), wear respiratory protection equipment.
Hygiene Measures	With sufficient ventilation on the working area and correct handling and processing no health risks are to be expected.

7. Physical and Chemical Properties	
General Information	These are just recommended reference values. Please take the technical product specification into consideration.
Form	Solid
Colour	Black
Odour	Odourless
Crystalline Melting Point	106/106/660/106/136/106 °C (ASTM D 4894)
Flash Point	340 °C
Ignition Temperature	335°C (ASTM D 1929)
Lower Explosion Limit	Not applicable
Vapour Pressure	Not applicable
Density	1.04 g/cm ³ (at 23 °C)
Solubility in Water	Insoluble
Hygroscopic?	No
pH-value	Not applicable
Viscosity	Not applicable
Density of Steam	Not applicable (101,3 kPa/air = 1)
Evaporation Rate	Not applicable (n-Butylacetate = 1)
Heat of Evaporation	Not applicable
Coefficient of Thermal Expansion of Liquid	Not applicable
Vapour Pressure	Not applicable
Molecular Weight	3,000 – 50,000 (polymers)

8. Stability and Reactivity	
Chemical Stability	Stable between – 240 °C and + 100 °C
Thermal Decomposition	Temperatures above 300°C lead to the decomposition of the polymers.
Hazardous Decomposition Products	Thermal decomposition products are toxic and corrosive: Hydrocarbons, carbon dioxide, carbon monoxide, smoke
Hazardous Combustion Products	Reduced oxygen supply can cause the development of carbon monoxide and irritant smoke.
Hazardous Reactions	Do not bring into contact with: Fluorine, strong oxidising agents.

9. Toxicological Information	
General Information	According to present experience, the material is physiologically compatible. According to present experience, the material is neither mutagenic, carcinogenic nor teratogenic.

10. Ecological Information	
General Information	Product is insoluble in water and not biodegradable. The material has no harmful effect on the environment
Water Hazard Class	0 (estimate) Oxygen required lies under the detection limit of 50 mg/l.

11. Disposal Considerations	
Product	In accordance with the necessary technical and local regulations, may be dumped with household waste without harmful effects to the environment.
Recycling	Recycling of product is possible in suitable plants.
Name of Waste	Composite wastes containing Polyethylene and Aluminium

12. Notes on Transport	
Land Transport	GGVS / GGVE: non-hazardous material. ADR / RID: non-hazardous material
Inland Navigation	I / ADNR: non-hazardous material
Transport by Sea	IMDG / UN: non-hazardous material
Air Transport	ICAO-TI / IATA-DGR: non-hazardous material
Air Mail Transport	Permitted
Dispatch by Post	Permitted

13. Regulatory Information	
Labelling in Accordance with GefStoffV/EC	Hazard warning labelling not compulsory
National Regulations	TA-Luft (Ger.) Class I
Water Hazard Class	0
Other Regulations	Not applicable

14. Other Information	
<p>This data sheet was prepared in accordance with the Guideline 93/112/EC. The above information describes exclusively the safety requirements of the product and is based on our present knowledge. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations. It does not apply if the product is used together with other materials.</p> <p>The user must determine himself if all the statements and information for his specific purpose/use is suitable and complete. The additives contained in the product such as lubricants, anti blocking agent, antioxidants or stabilisers can vary. Further Properties of the product are to be found in the respective product leaflets.</p>	