

Safety Data Sheet

POLYETHYLENE – LDPE & HDPE

Version: 001

Date: 2nd of March 2011

1. Identification of the Substance/Mixture and of the Company/Undertaking	
1.1. Product Details:	Extruded plastic nets, grids, cores, cages and tubes
1.2. Application:	Civils & Construction, Wastewater Treatment, Aquaculture, Industrial, Packaging, Agriculture & Horticulture, Home & Garden
1.3. Company Details:	EXPO-NET Danmark A/S Georg Jensens Vej 5 DK-9800 Hjørring Denmark
1.4. Emergency Telephone Number	+45 98 92 21 22
1.5. Master Batch Polymer:	Polyethylene – LDPE & HDPE
1.6. Colour Additives:	Various
2. Hazards Identification	
Provided that the EXPO-NET products are used at normal application temperatures (we recommend between -20 and 80 °C), the products do not present particular hazards or risks.	
2.1. Physical-Chemical Risks:	The products are combustible if exposed to flames. The friction due to cutting or shearing the products may create electrostatic charges releasing little sparks and originate fire primers.
2.2. Human Health Affects:	
* <i>Inhalation:</i>	If heated to more than 130 °C, the products may form vapours or fumes which may cause irritation of respiratory tract and cause coughing and sensation of shortness of breath.
* <i>Skin Contact:</i>	If in contact with hot material, the products may cause severe thermal burns.
* <i>Eye Contact:</i>	If the products are cut or sheared, fine dust may cause irritation to ocular mucous.
* <i>Ingestion:</i>	Polyolefins are biologically inert. (See also 11.1).
2.3. Application Symptoms:	Some of the products may have sharpened edges which might puncture, pick or cut the skin.
2.4. Environmental Risks:	The products are non biodegradable.
3. Composition / Information on Ingredients	
The supplied products are made of the following compounds:	
Polyethylene Master Batch:	≈ 100 %
Colour Additives:	< 2%
3.1. Chemical Names:	
* <i>Master Batch:</i>	Low Density and High Density Polyethylene
* <i>Colour Additives:</i>	Various

4. Measure of First Aid	
<p>4.1. Exposure types:</p> <ul style="list-style-type: none"> * <i>Inhalation:</i> * <i>Skin Contact:</i> * <i>Eye Contact:</i> * <i>Ingestion:</i> 	<p>In case of exposure to spray, fumes and vapours produced by heated or burned products, bring the patient into fresh air, and seek medical assistance immediately.</p> <p>In case of exposure to drops/splashes of molten material, treat the affected part with cold water (by spraying or immersion). No attempt should be made to detach molten product adhering to the skin or to remove clothing attached with molten material, the injured body part would risk being pulled out (usually the layer detaches itself after a few days). In case of severe burns, seek medical assistance.</p> <p>In case of exposure to drops/splashes of molten material, treat the eye with cold water. Remove any particles entering the eye as any other foreign body. Hospitalize injured person ASAP. Fine dust may cause irritation to ocular mucous, in case of irritation caused by fine dust, wash with copious volumes of water until the irritation disappears.</p> <p>Ingestion during handling is not likely. Remove material from mouth, do not induce vomiting. Normally first aid assistance is not necessary.</p>
5. Fire Fighting Measures	
<p>5.1. Extinguishable Media:</p> <ul style="list-style-type: none"> * <i>Suitable for minor fires:</i> * <i>Suitable for more extensive fires:</i> * <i>Do not use:</i> 	<p>Carbon dioxide (CO₂) or power, water.</p> <p>Foam, water spray (mist) to cool the surfaces exposed to the fire.</p> <p>Water jets (stick jets) for extinguishing fire since they could help to spread the flames.</p>
<p>5.2. Technical Measures:</p>	<p>Stop the fire spreading, call the fire brigade immediately, and evacuate non-essential personnel.</p>
<p>5.3. Advice for Fire-fighters:</p>	<p>Protective clothing, goggles and self-contained breathing equipment should be made available for fire-fighters.</p>
<p>5.4. Special Hazards:</p> <ul style="list-style-type: none"> * <i>Complete combustion:</i> * <i>Partial combustion:</i> 	<p>With an excess of oxygen forms: Carbon dioxide (CO₂) and water vapour.</p> <p>Forms also: Carbon monoxide (CO), soot and cracked products: Aldehydes, Ketones, Acetone, Acetaldehyde, Formaldehyde, Acrelein, Hydrocarbons and volatile fatty acids. (See also 10.3).</p>
6. Accidental Release Measures	
<p>6.1. Personal Precautions:</p>	<p>In case the rolls unroll, cut pieces, grids, cores, cages or tubes fall out on the ground, the operator could become entangled, stumble or slip. Therefore, protective gloves and safety non-slip shoes should be worn.</p>
<p>6.2. Environmental Precautions:</p> <ul style="list-style-type: none"> * <i>On Soil:</i> 	<p>The products are completely recyclable. They should be disposed of according to applicable regulations.</p> <p>Avoid disposing the products in the environment after use. Collect the utilised products in suitable containers for further utilisation, disposal or recycling.</p>

* <i>In Water:</i>	Notify the Authorities in case of floating or dispersed products in a waterway or in a sewerage system. Refer to a specialist for waste disposal in a safe manner in accordance with local or national regulations.
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7. Handling and Storage

Important!

We refer to any national measures that may be relevant.

7.1. Safe Handling:	The gross weight of the products is indicated on our delivery notes and invoices. If the weight exceeds the allowed values for manual handling, make sure to use more manpower or mechanical means to move the products.
7.2. Safe Storage:	Store the products at ambient temperatures (we recommend between 5 and 30 °C) and an atmospheric pressure in original packaging (plastic or cardboard boxes). Do not store the products near highly flammable materials and store them away from heating sources. Avoid static electricity build up with connection to earth. Store in dry, well-ventilated area. Prolonged storage should preferably be out of the sun or other sources of radiation.

8. Exposure Controls / Personal Protection

8.1. Exposure Control:	We refer to any national measures that may be relevant.
8.2. Personal Protection:	Not applicable.
* <i>Respiratory Protection:</i>	It might be necessary to use protective gloves for handling of some of the products as they may pick or cut the skin.
* <i>Hand and Skin Protection:</i>	It might be necessary to use protective goggles/spectacles for handling some of the products as they may spit.
* <i>Eye Protection:</i>	

9. Physical and Chemical Properties

9.1. Appearance:	Nets, grids, cores, cages and tubes in rolls or boxes.
9.2. Physical State at 20 °C:	Solid
9.3. Odour:	Odourless
9.4. Melting range (°C):	90 to 160
9.5. Flash Point (°C):	> 300
9.6. Flammability (°C):	> 300
9.7. Relative Density at 20 °C:	0.920 to 0.955
9.8. Solubility in Water:	Insoluble
9.9. Viscosity:	Not applicable

10. Stability and Reactivity

10.1. Chemical Stability:	The products are stable under normal operating condition of storage, handling and use.
10.2. Conditions to Avoid:	Avoid contact with strong oxidizing materials and fluorine. Avoid proximity or contact with flames and sparks. It is recommended not to heat at a temperature higher than 110 °C.

<p>10.3. Hazardous Decomposition Products:</p> <ul style="list-style-type: none"> * <i>Complete combustion:</i> * <i>Partial combustion:</i> 	<p>With an excess of oxygen forms: Carbon dioxide (CO₂) and water vapour.</p> <p>Forms also: Carbon monoxide (CO), soot and cracked products: Aldehydes, Ketones</p>
<p>11. Toxicological Information</p>	
<p>The products are not classified as cancerogenic.</p>	
<p>11.1. Acute Toxicity:</p> <ul style="list-style-type: none"> * <i>Ingestion</i> * <i>Inhalation</i> * <i>Skin Contact</i> * <i>Eye Contact</i> 	<p>Low grade of toxicity.</p> <p>The products are made from polyolefins which are biologically inert, therefore, because of their composition, the products should be considered as not harmful.</p> <p>Ingestion may cause occlusion.</p> <p>Minor risks for temperatures lower than 60 °C.</p> <p>At temperature higher than 130 °C, fumes may develop causing irritation of respiratory tract and cause coughing and sensation of shortness of breath.</p> <p>Because of their composition, the products should be considered as not irritating.</p> <p>No risks for temperatures lower than 60 °C.</p> <p>Contact with molten product may cause severe thermal burns.</p> <p>Because of their composition, the products should be considered as not irritating.</p> <p>Fine dust generated from product grinding may cause irritation to ocular mucous.</p> <p>Splashing of molten droplets causes ocular tissue burns.</p>
<p>12. Ecological Information</p>	
<p>Important! Avoid losses to the environment wherever possible.</p>	
<p>12.1. Ecotoxicity:</p>	<p>The products are completely recyclable and non toxic. They should be used according to good working practices without disposing them in the environment.</p>
<p>12.2. Persistence and Degradability:</p>	<p>The products are persistent in the environment. They are not biodegradable.</p>
<p>12.3. Bioaccumulative Potential:</p>	<p>The potential bioaccumulation of the products in environment is very low.</p>
<p>12.4. Mobility:</p> <ul style="list-style-type: none"> * <i>Water/Air</i> * <i>Soil and Sediments</i> * <i>Water</i> 	<p>There is a slow loss by evaporation.</p> <p>Because of their physico-chemical properties, the products have low soil mobility.</p> <p>The products, in cases of accidental discharge, floats on the surface, they are insoluble and their evaporation into air is practically nil.</p>
<p>13. Disposal Considerations</p>	
<p>13.1. Waste Disposal:</p>	<p>The products are completely recyclable class PE of plastic material.</p> <p>The products should be disposed off according to local regulations and in authorized disposals as refuse for</p>

	reprocessing. Do not dispose in the environment. The products may be incinerated with household refuse in a municipal solid waste incinerator plant, and they can be used as fuel in suitably designed installations.
14. Transport Information:	
14.1. By Truck/Rail:	Not restricted for transport
14.2. By Sea/Air:	Not restricted for transport
14.3. Class of Danger:	Not applicable
15. Regulatory Information:	
The products are not classified as dangerous. The PE used in our products is a polymer, following the European regulation, registration on the EINECS (European Inventory of Existing Commercial Chemical Substances) inventory is not required.	
16. Other Information:	
16.1. Training Advice:	Not applicable
16.2. Usage Recommendation:	The user must receive all product information in order to handle the products safely.
16.3. Other Information:	We are at your disposal with guidance as regards application and installation instructions for the products.

All above pieces of information are considered to be correct and given in good faith. The information contained is based on our knowledge of the products at the date of publishing.

Users are advised of possible additional hazards when the products are used in applications for which they were not intended. This sheet shall only be used and reproduced for prevention and security purposes.

Any references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive.

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

It is also the responsibility of the handlers of the products to pass on to any subsequent persons who will come into contact with the products (usage, storage, 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.

EXPO-NET Danmark A/S do not accept any sort of liability in case our products are used improperly.

Should you need further details, please do not hesitate to contact us.



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Certificate No. 29374
British Retail Consortium/IoP Global Standard