

**Safety Data Sheet - Ipethene® 213**  
**According to Regulation (EC) No 1907/2006 (REACH)**

<b>1. Identification of substance</b>	
<b>Trade name</b>	Ipethene® 213
<b>Manufacturer</b>	Carmel Olefins Ltd. R&D and Technical Service Department P.O.B. 1468 HAIFA 31014, Israel
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<b>E-mail</b>	techserv@caol.co.il
<b>2. Hazards Identification</b>	
<b>Classification &amp; Labelling</b>	This product is not classified as hazardous according to EEC directives 67/548/EEC, 1999/45/EC. This product is not classified as hazardous according to EC regulations 1907/2006/EC, 1272/2008/EC, and following amendments.
<b>Other hazards</b>	Spilled material may create a slipping hazard. Molten product may adhere to the skin and cause thermal burns. Fumes produced during melt processing may cause eye, skin, and respiratory tract irritation. Dust formation may present a potential dust explosion hazard. Possible production of electrostatic charging when used.
<b>3. Composition/Information on Ingredients</b>	
<b>Chemical Name</b>	Low density polyethylene
<b>Chemical Formula</b>	(C <sub>2</sub> H <sub>4</sub> ) <sub>n</sub>
<b>CAS No. Designation</b>	9002-88-4
<b>Description</b>	Mixture of Low Density Polyethylene with less than 1% wt. harmless additives
<b>4. First Aid Measures</b>	
<b>General information</b>	The measures listed below apply to critical situations such as fire, incorrect process conditions, etc. At room temperature the product is neither an irritant nor gives off hazardous vapors.
<b>Inhalation</b>	In case of excessive inhalation of fumes move the person to fresh air and get medical attention. Keep person warm, if necessary give mouth-to-mouth resuscitation, or artificial respiration.
<b>Skin contact</b>	In case of contact with molten product cool rapidly with cold water. Do not try to remove solidified product from the skin. Get medical attention.
<b>Eye contact</b>	Rinse opened eye for several minutes under running water. Get medical attention. Do not attempt to remove any material adherent to the eye.
<b>Swallowing</b>	No specific measures have to be taken if the product is swallowed. Get medical advice if necessary.
<b>5. Fire-fighting measures</b>	
<b>Suitable extinguishing agents</b>	Water spray Foam Carbon dioxide (CO <sub>2</sub> ) Chemical powder

**Safety Data Sheet - Ipethene® 213**  
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<b>Unsuitable extinguishing agents</b>	Water jet
<b>Special hazards caused products of combustion or resulting gases</b>	Keep away from heat and sources of ignition. Products of combustion: carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> ) and unburned hydrocarbons (smoke). The formation of hydrocarbons and aldehydes are possible in the initial stages of fire (especially in between 400°C and 700°C).
<b>Protective equipment Additional information</b>	Put on breathing apparatus and firefighting protective clothing. Heat value: 8000 - 11000 kcal/kg
<b>6. Accidental Release Measures</b>	
<b>Person-related safety precautions</b>	No specific measures are necessary.
<b>Measures for environmental protection</b>	Do not flush into surface water or sanitary sewer system.
<b>Measures for cleaning/collecting</b>	Sweep up and shovel into suitable containers for disposal. To avoid creating a powder cloud do not use aggressive brush or compressed air.
<b>Additional information</b>	Collect spilled polymer to avoid slipping hazard.
<b>7. Handling and Storage</b>	
<b>Information for safe handling</b>	Handle in accordance with safety practices. No special requirements necessary if handled at room temperature. Avoid spilling the product, as this might cause falls. Provide appropriate ventilation and dust collection systems, Small particles formed during storage, handling, processing, or by other means may form combustible dust concentrations in air. Avoid dust accumulation in enclosed space, since in the presence of an ignition source or static discharge (spark) it is a potential dust explosion hazard. If dust is created, safety measures against explosion have to be taken. Electrostatic charge may build during conveying or handling, so all pneumatic transport equipment must be electrically grounded.
<b>Requirements to be met by storerooms and containers</b>	Store at ambient temperature and atmospheric pressure in original packaging or in a grounded metal container.
<b>Further information about storage conditions</b>	Protect from heat, direct sunlight and strong oxidizing agents. Store under dry conditions.
<b>Specific applications</b>	No information available
<b>8. Exposure Controls and Personal Protection</b>	
<b>Components with workspace control parameters</b>	Not required.
<b>Personal protective equipment</b>	
<b>General protective and hygienic measures</b>	Do not eat, drink or smoke while using the product.

**Safety Data Sheet - Ipethene® 213**  
**According to Regulation (EC) No 1907/2006 (REACH)**

<b>Breathing equipment</b>	Provide system for collecting the dust and vapors which may be formed during the working process. If appropriate ventilation is not available, use face mask during handling or processing.
<b>Protection of hands</b>	Wear gloves that provide thermal protection where there is a potential for contact with heated material.
<b>Eye protection</b>	Safety goggles should be worn to prevent mechanical injury or other irritation to eyes due to airborne particles or melt which may result from handling or processing this product.
<b>Body protection</b>	Wear suitable protective clothing. Safety and non-slip boots or shoes.

### 9. Physical and Chemical Properties

<b>Appearance</b>	Solid plastic pellets (granules)
<b>Color</b>	Translucent to white
<b>Odor</b>	Slight / characteristic
<b>Melting Point</b>	At atmospheric pressure, 100-115°C
<b>Flash Point</b>	Not applicable
<b>Autoignition temperature</b>	> 300°C
<b>Danger of explosion</b>	Polymer pellets are not explosive. Note: The minimum explosive concentration for polymer dust varies according to particle size distribution.
<b>Density at 20°C</b>	0.91-0.93 g/cm <sup>3</sup>
<b>Solubility in water</b>	Insoluble
<b>Bulk Density at 20°C</b>	400-600 kg/m <sup>3</sup>

### 10. Stability and Reactivity

<b>Stability</b>	The product is stable and is not expected to decompose under normal handling and storage conditions.
<b>Thermal decomposition products</b>	Carbon monoxide, olefinic and paraffinic compounds, trace amounts of organic acids, ketones, aldehydes and alcohols may be formed as a result of thermal decomposition.
<b>Material to Avoid</b>	Strong oxidizing agents. Material may be softened by some hydrocarbons.
<b>Dangerous reactions</b>	No dangerous reactions known.

### 11. Toxicological Information

<b>General information</b>	Not classified as irritant.
<b>Acute toxicity</b>	Not classified
<b>Chronic toxicity</b>	Not classified
<b>Primary irritant effect on the eye, skin and inhalation</b>	Dust may cause irritation to the eyes, skin and respiratory tract. Decomposition products may cause headache and/ or irritation to the respiratory tract.
<b>Sensitization</b>	Not classified

**Safety Data Sheet - Ipethene® 213**  
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<b>Additional toxicological information</b>	When used and handled according to specifications previously mentioned, the product does not have any harmful effects according to our experience and the information provided to us.
<b>12. Ecological Information</b>	
<b>Ecotoxicity effects</b>	This product has no known eco-toxicological effects.
<b>Other information</b>	The product is not biodegradable.
<b>13. Disposal Considerations</b>	
<b>Product</b>	Reuse or recycle if possible.
<b>Waste disposal</b>	Disposal must be done according to local regulations.
<b>14. Transport Information</b>	
<b>Transport/Additional information</b>	According to national and international guidelines, which regulate the road-, rail-, air- and sea-transport, this product is classified as not hazardous.
<b>15. Regulatory Information</b>	
<b>EC regulations</b>	The material is not subject to classification according to EC lists and other sources of literature known to us.
<b>16. Other Information</b>	
<b>Further information</b>	Issued in accordance with Regulation (EC) No 1907/2006, and following amendments.
<b>Disclaimer</b>	
<p>The information supplied has been based upon our best knowledge, for the purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. The information specified herein is accurate and reliable as of the date of publication. This safety data sheet is not to be interpreted as a warranty for specific product characteristics. Carmel Olefins Ltd. takes no responsibility for inappropriate use, processing and handling by purchasers and users of the product.</p>	
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