

**Folabase H48**  
 self-adhesive underpacking foil  
 EC Safety Data Sheet

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<b>EC Safety Data Sheet</b>	
<b>Date:</b> 11.02.15	
Folex Coating GmbH, Unnauer Weg 6, 50767 Koeln, Germany	
<b>1</b>	<b>Name of substance/preparation and firm</b>  <b>Product name: Folabase H48. self-adhesive underpacking foil</b> Manufacturer/supplier: Folex Coating GmbH Street: Unnauer Weg 6 Nat. code/post code/town: D-50767 Koeln (Cologne) Tel: ++49 221 / 97 94 79-0 Fax: ++49 221 / 97 94 79-9
<b>2</b>	<b>Composition/particulars on the constituents</b>  Chemical characterisation: Polyethylene terephthalate film, polyurethane film, single side coated with water born adhesive, covered with siliconized polypropylene protection film  CAS No.: 23038-59-9 *Cadmium is not added to the product
<b>3</b>	<b>Possible hazards</b>
<b>4</b>	<b>First aid measures</b>  General notes: First aid normally only necessary in case of burns and inhalation of burning gases  after inhaling: Bring patient out into the fresh air.  after skin contact: In case of contact with molten product cool off rapidly with cold water. Do not pull solidified product off the skin. If symptoms occur, consult a doctor.  after eye contact: Immediately rinse out thoroughly for at least 10 minutes with lids apart with plenty of clean water. Seek medical advice.  after swallowing: n.a.
<b>5</b>	<b>Fire control measures:</b>  Suitable extinguishing agents: Water spray jet, foam, dry extinguishing agent or CO <sub>2</sub>  Particular hazard due to the substance, its combustion products or arising gases. Combustible but does not maintain combustion. In a fire, toxic and harmful substances can be released as described in the section on "hazardous decomposition products". In the event of fire, fire may be spread by melting and drops of the material. Fire-fighting only with respiratory protection.

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<b>6</b>	<p><b>Action to be taken in the event of unintentional release</b></p> <p>Pick up and place in waste barrels or suitable plastic sacks, seal and take to a controlled disposal site.</p>
<b>7</b>	<p><b>Handling and storage</b></p> <p>7.1 Handling</p> <p><b>Notes on safe handling:</b> Wear protective gloves to avoid cutting. Take action against electrostatic charging.</p> <p><b>Instructions to be followed in mechanical treatment:</b> Ensure adequate ventilation/extraction at the processing machines and in weighing out/refilling. Caution should be exercised if the product is heated to avoid burns due to contact with the hot material.</p> <p>All polymers are broken down to a certain extent at their processing temperature, this effect increases at rising temperature. Before the melting point is reached, the untreated backing film begins to contract, the extent of the contraction depending on the time/temperature and type of film. The precise quantity and nature of the breakdown products depends on temperature, oxygen supply and process conditions. <b>Ensure adequate ventilation/extraction at the processing machines.</b> Wear industrial gloves when handling the film, danger of injury caused by the sharp edges.</p> <p><b>Notes on fire and explosion protection:</b> Combustible, but does not maintain combustion. In a fire, toxic and hazardous substances can be released as described in the section on "hazardous decomposition products". In the event of fire, fire may be spread by melting and drops of the material.</p> <p>7.2 Storage</p> <p>Protect against moisture. Avoid extreme heat and cold.</p>
<b>8</b>	<p><b>Exposition limitation and personal protective equipment</b></p> <p><b>Constituents with workplace-related limit values to be monitored</b></p> <p>If the product exists as breathable dust, comply with: maximum workplace concentration (MAK/Germany) for general dusts 6 mg/m<sup>3</sup></p> <p><b>General protective and hygiene measures:</b></p> <p>Respiratory protection: If breathable dusts occur: Briefly breathing filter device, filter type: P2</p> <p>Hand protection: Protective gloves e.g. made of leather</p> <p>Eye protection: Tightly closing goggles</p> <p>Body protection: Generally not necessary.</p>

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<b>9</b>	<p><b>Physical and chemical properties</b></p> <p><b>Appearance</b>                  Form: solid                  Colour: red                  Odour: characteristic</p> <p><b>Safety-relevant data</b></p> <table> <tr> <td>Change of state</td> <td></td> <td>Method:</td> </tr> <tr> <td>Melting point:</td> <td>255 - 260°C</td> <td>ASTM</td> </tr> <tr> <td>Flash point:</td> <td>440°C</td> <td>ASTM</td> </tr> <tr> <td>Ignition temperature:</td> <td>480°C</td> <td>ASTM</td> </tr> <tr> <td>Explosion limits:</td> <td>lower:</td> <td>upper:</td> </tr> <tr> <td>Vapour pressure:</td> <td>°C</td> <td>n.a. hPa</td> </tr> <tr> <td></td> <td>°C</td> <td>n.a. hPa</td> </tr> <tr> <td>Density:</td> <td>23°C</td> <td>1,4 g/cm<sup>3</sup></td> </tr> <tr> <td>pH value:</td> <td>n.a.</td> <td>g/l H<sub>2</sub>O</td> </tr> <tr> <td>Viscosity:</td> <td></td> <td>n.a.</td> </tr> </table> <p><b>Other particulars:</b></p> <table> <tr> <td>Specific heat:</td> <td>1,34 kJ/kg at 25°C</td> </tr> <tr> <td>Thermal conductivity (PET):</td> <td>0,14 W/mK</td> </tr> <tr> <td>Heat of combustion (PET):</td> <td>23,5 MJ/kg</td> </tr> <tr> <td>Oxygen index (PET, in % O<sub>2</sub>)</td> <td>21 (ASTM)</td> </tr> </table>	Change of state		Method:	Melting point:	255 - 260°C	ASTM	Flash point:	440°C	ASTM	Ignition temperature:	480°C	ASTM	Explosion limits:	lower:	upper:	Vapour pressure:	°C	n.a. hPa		°C	n.a. hPa	Density:	23°C	1,4 g/cm <sup>3</sup>	pH value:	n.a.	g/l H <sub>2</sub> O	Viscosity:		n.a.	Specific heat:	1,34 kJ/kg at 25°C	Thermal conductivity (PET):	0,14 W/mK	Heat of combustion (PET):	23,5 MJ/kg	Oxygen index (PET, in % O <sub>2</sub> )	21 (ASTM)
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<b>10</b>	<p><b>Stability and reactivity</b></p> <p>Conditions to be avoided: &gt; 260°C incipient decomposition                  Substances to be avoided: none known</p> <p><b>Hazardous decomposition products:</b> The majority of volatile substances are above the decomposition temperature: terephthalic acid, PET oligomers, CO, CO<sub>2</sub> and low-molecular alcohols/aldehydes.                  Hazard-determining decomposition products: CO, CO<sub>2</sub></p>																																						

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<b>11</b>	<b>Particulars on toxicology</b>
	Acute toxicology Inhalation: The combustion products can irritate the respiratory tract. Skin contact: n.a. Eye contact: The combustion products can irritate the eyes.
<b>12</b>	<b>Particulars on ecology</b>
	Other particulars: The polymer behaves inertly. The material is slowly broken down by UV light.

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<b>13</b>	<b>Notes on disposal</b>
	Product Recommendation: The regulations of local authorities are to be complied with for disposal. Must be taken, in compliance with special-waste regulations following pre-treatment, to a special-waste incineration plant licensed for this purpose. Waste code: 20 03 01
<b>14</b>	<b>Transport</b>
	Land transport                      ADR/RID and GGVS/GGVE Sea transport                        IMDG/GGVSea Proper shipping name: Air transport:                        ICAO-TI and IATA-DGR  Transport/other particulars: Not hazardous good within the meaning of national and international transport regulations.
<b>15</b>	<b>Regulations</b>
	Marking in accordance with EEC Directives:  Not a hazardous substance within the meaning of the Hazardous Substances Order (GefStoffV)  National regulations  VbF:                                      Not subject to the Combustible Liquids Order (VbF) Water hazard class:                0 in general not posing a hazard to water Self-classification: (Y/N)        Y
<b>16</b>	<b>Other particulars</b>
	n.a.:                                      not applicable n.b.:                                      not determined

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This data sheet was drawn up in compliance with Directive 91/155/EEC.

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