

# 'GELFLEX' MOULDING COMPOUND

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## 1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

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**Product Name:** 'GELFLEX' Moulding Compound  
Hard Grade – Blue  
Soft Grade – Natural

**General Description:** A compound based on a selected PVC resin, plasticisers and proprietary modifiers and stabilisers.

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## 2. COMPOSITION & INFORMATION OF INGREDIENTS

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MATERIAL	%	RISK PHRASE	OEL (ST)	OEL (LT)
Di-ethylhexylphthalate (DEHP or DOP)	>50	R62 Possible risk of impaired fertility R63 Possible risk of harm to the unborn child		5 mg/m <sup>3</sup>

Risk phrases in this section apply only to raw materials, not necessarily finished products:

See '15. REGULATORY INFORMATION'.

According to a statement made by the European Council for Plasticisers and Intermediates (EPI) "Articles such as flexible PVC products are not subject to this labelling Directive" (i.e. the Directive concerning PVC plastisols or dispersions containing DEHP and pure DEHP itself). GELFLEX Compounds come under the description of flexible PVC products.

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## 3. HAZARDS IDENTIFICATION

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This is a low hazard material conforms to the European Toy Standard EN-71/3 (BS 5665).

The product as supplied does not present a significant hazard to the user. Any hazards incurred are during the melting and pouring of the molten compound. Customers are advised to read the instructions and advice on melting, pouring and handling of molten compound offered in the data sheet. This advice should be read carefully before starting work with 'Gelflex' compounds.

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#### 4. FIRST AID MEASURES

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**NOTE:** The following Hazards and First Aid Advice apply mainly to the Molten Compound which is employed at temperatures between 140 and 160°C

	<b>HAZARD</b>	<b>FIRST AID</b>
<b>Skin:</b>	Melts can cause serious burns, because the molten material sticks to the skin as it cools.	Place the affected area under clean, running water for at least 2 minutes immediately after the incident. Seek medical attention immediately.
<b>Eyes:</b>	Fumes may cause irritation (Check ventilation/ respirators)	Wash the eyes with clean cold water or eyewash solution for at least 15 minutes. Seek medical attention.
<b>Ingestion:</b>	Unlikely that a person would attempt to ingest molten compound. The cold solid compound is not a significant ingestion hazard.	Do not encourage vomiting. Seek medical attention. Treat symptomatically.
<b>Inhalation:</b>	Fumes can cause nausea and possible irritation of mucous membranes.	Remove the person to fresh air. Treat symptomatically.

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#### 5. FIRE FIGHTING MEASURES

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<b>Extinguishing media:</b>	Carbon dioxide, dry chemical powder or dry sand.
<b>Special Protective Equipment:</b>	Suitable respiratory equipment or self-contained breathing units.
<b>Exposure Hazards:</b>	'Gleflex' compound is not classified as flammable, but if involved in a persistent fire, it would burn and may emit acidic and noxious fumes.

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#### 6. ACCIDENTAL RELEASE MEASURES

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This product does not present a spillage hazard at ambient temperatures. Any spillages of the molten compound should be allowed to cool and then removed for recycling or disposal.  
See '13. DIPOSAL CONSIDERATIONS'.

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#### 7. HANDLING AND STORAGE

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There are no particular special requirements for 'Gelflex' compounds. It is recommended that the compound and moulds made from it are stored in a clean, dry, cool place, under which conditions they have virtually unlimited shelf-life.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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- Respiratory:** Ensure adequate ventilation, particularly during melting and handling the melt.
- Hands:** Non-PVC glove recommended.
- Eyes:** Protective eyewear recommended for use with any industrial product.
- General:** Users should wear protective clothing and ensure adequate ventilation is provided before starting to melt and pour 'Gelflex' compound.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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- Appearance:** Bright blue, flexible plastic (HARD)  
Natural, flexible plastic (SOFT)
- Odour:** Mild, characteristic
- Flash Point:** >300°C
- Flammability:** Not classified as flammable
- Relative Density:** 1.20
- Dispersability:** Can be dispersed in hot PVC plasticiser.

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## 10. STABILITY AND REACTIVITY

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- Hazardous thermal decomposition products:** Carbon monoxide, carbon dioxide and hydrogen chloride
- Incompatibility (Materials to avoid):** Strong oxidising agents.
- Conditions to avoid:** At temperatures above 165°C, the compound will decompose with the production of unpleasant fumes. The compound may discolour badly and be unsuitable for use if heated above this temperature.

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## 11. TOXICOLOGICAL INFORMATION

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Acute oral LD50 (mg/kg): Calculated value is greater than 20,000 mg/kg

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## 12. ECOLOGICAL INFORMATION

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- Acute Toxicity:** Most acute toxicity studies on aquatic organisms show PVC plastisols to be of low toxicity.
- Degradation:** The compound is biodegradable in accumulated treatment systems.
- Bioaccumulation:** The product is bioaccumulative but higher organisms e.g. fish and mammals will metabolise and eliminate the uptake.
- Mobility:** The product will absorb strongly to organic matter. The material is accumulated in sediments.

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### 13. DISPOSAL CONSIDERATIONS

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Disposal must be in accordance with local and national legislation governing the disposal of PVC compounds. Consult local authorities for advice.

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### 14. TRANSPORT INFORMATION

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<b>UN Number:</b> None.	<b>ADR-ROAD:</b>	None.
<b>ICAO-Air:</b> None.	<b>Proper Shipping Name:</b>	None.
<b>IMO-Sea:</b> None.	<b>Additional Data:</b>	Non hazardous for transport.

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### 15. REGULATORY INFORMATION

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**Supply Classification:** Not classified.      **Hazard Pictogram:** None

**Risk Phrases:** None

**NOTE:** The following safety phrases are particularly applicable to the hot molten compound.

<b>Safety Phrases:</b>	S24/25	Avoid contact with skin and eyes
	S20	When using do not eat or drink
	S36/37/39	Wear suitable protective clothing, gloves and eye/face protection
	S51	Use only in well ventilated areas

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### 16. OTHER INFORMATION

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Data from the following sources have been used to compile this document.  
HSE – EH40/93: Occupational exposure limits 1995.  
HSC – Safety Data Sheets for substances and preparations dangerous for supply.  
Suppliers Health and Safety Data.