



Product name and code: HEMPEL'S PROP-PRIMER 101EX

SDS-01EP/ES

Revision date: 08/05/2006

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**1. IDENTIFICATION OF THE PREPARATION AND COMPANY**

Product name and code: HEMPEL'S PROP-PRIMER 101EX

Safety Data Sheet for the colours in attached list.

Name and full address : PINTURAS HEMPEL S.A. Emergency phone number: (34) 93 713 00 00  
 Ctra. de Sentmenat 108 (34) 93 713 29 20 (After hours)  
 08213 POLINYÀ (Barcelona)  
 Phone: (34) 93 713 00 00

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Substances presenting a health hazard within the meaning of the Dangerous Substances Directive 67/548/EEC

Name	Concentration Range %	Einecs	Symbol	R-Phrases*
Butan-1-ol	2.5 - 10	(200-751-6)	Xn	10-22-37/38-41-67
DGEBA - Epoxy resin (mw<=700)	1.0 - 2.5	(500-033-5)	Xi-N	36/38-43-51/53
Xylene	10 - 25	(215-535-7)	Xn	10-20/21-38
Ethylbenzene	2.5 - 10	(202-849-4)	F-Xn	11-20
Middlemolecular epoxyresin	2.5 - 10	()	Xi	43-36/38
Dimethyl ether	25 - 50	(204-065-8)	F+	12

\*For full text see Section 16.

**3. HAZARDS IDENTIFICATION**

The preparation is a skin and respiratory sensitizer. It is also a skin irritant and repeated contact may increase this effect.

See health and environment dangers in section 15.

Use only in well-ventilated areas and in case of insufficient ventilation, wear suitable respiratory equipment.

**4. FIRST AID MEASURES**

GENERAL: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

INHALATION: Remove to fresh air, keep the patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.

EYE CONTACT: Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.

SKIN CONTACT: Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleaner. DO NOT use solvents or thinners.

INGESTION: If accidentally swallowed obtain immediate medical attention. Keep at rest. DO NOT induce vomiting.

**5. FIRE FIGHTING MEASURES**EXTINGUISHING MEDIA: Recommended: Alcohol resistant foam, CO<sub>2</sub>, powder, water spray. Not to be used: Water jet.

RECOMMENDATIONS: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

**6. ACCIDENTAL RELEASE MEASURES**

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8. Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a container, for disposal according to local regulations (see Section 13).

Clean preferably with a detergent; avoid use of solvents.

Do not allow to enter drains or water courses. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

**7. HANDLING AND STORAGE**

HANDLING: Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

When operators, whether spraying or not, have to work inside the spraybooth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed aired respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing, and floors should be of the conducting type.

Keep container tightly closed, isolate from sources of heat, sparks and open flame. No sparking tools should be used. Never use pressure to empty: container is not a pressure vessel. Always keep in containers of same material as the original one.

Avoid skin and eye contact, as well as inhalation of vapour and spray mist. For personal protection, see Section 8. Smoking, eating and drinking should be prohibited in application area. Comply with the health and safety at work laws.

STORAGE: Store in accordance with local regulations. Observe label precautions. Store between 5 and 35 °C in a dry, well ventilated place. Keep away from sources of heat and direct sunlight. Keep away from sources of heat, direct sunlight, sources of ignition, oxidising agents, strongly alkaline and strongly acid materials. Containers which are opened must be carefully resealed and kept upright to prevent leakage. No smoking. Prevent unauthorized access.

**8. EXPOSURE CONTROLS - PERSONAL PROTECTION**

ENGINEERING MEASURES: Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and vapour below the occupational exposure limits, suitable respiratory protection must be worn.

EXPOSURE LIMITS: Occupational exposure limit for:

	Short Time*		8 Hours**	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Butan-1-ol	-	-	50	154
Xylene	100	442	50	221
Ethylbenzene	200	884	100	441
Dimethyl ether	-	-	1	1.92

according to: Occupational exposure limit (INSHT 2004).

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\* Short term exposure limit - 15 minutes reference period

\*\* Long term exposure limit - 8 hours time weighted average

**PERSONAL PROTECTION:**

Respiratory protection: When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand protection: For prolonged or repeated contact use polyvinyl alcohol or nitrile rubber gloves. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Eye protection: Eye safety eyewear designed to protect against splash of liquids.

Skin protection: Personnel should wear antistatic clothings made of natural fibre or of high temperature resistant synthetic fibre. All parts of the body should be washed after contact.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state:	Viscous liquid
Flash point °C:	-40.0 Method: ISO 1523
Specific gravity:	0.9 ± 0.1 Method: ISO 2811
Vapour density:	Heavier than air
Lower explosion limit:	0.5 % vol.
Solubility in water:	Partially miscible

**10. STABILITY AND REACTIVITY**

Stable under the recommended storage and handling conditions (See Section 7). In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced. Keep away from oxidising agents, strongly alkaline and strongly acid materials to prevent the possibility of exothermic reaction.

**11. TOXICOLOGICAL INFORMATION**

There is no data available on the preparation itself.

Exposure to component vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

The liquid splashes in the eyes may cause irritation and reversible damage.

Based on the properties of the epoxy constituents and considering toxicological data on similar preparations, this preparation may be a skin and respiratory sensitizer and an irritant.

Low molecular epoxy constituents are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies.

**12. ECOLOGICAL INFORMATION**

There is no data available on the preparation itself.

The product should not be allowed to enter drains or water courses.

**13. DISPOSAL CONSIDERATIONS**

Do not allow into drains or water courses.

Wastes and empty containers should be disposed of in accordance with local regulations.

**14. TRANSPORT INFORMATION.**

Transport only in accordance with ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

ADR-RID: Class: 2  
Packing group: -  
Transport document name: Transport letter  
Label: 2 -  
-

IMDG: Class: 2 UN n°. 1950  
Marine pollutant: Yes  
EMs: - MFAG: -  
Packing group: -  
Proper shipping name: Shipment Information  
Label: 2 -  
-

ICAO/IATA: Class: 2 UN n°. 1950  
Packing group: II  
Proper shipping name: Air Information  
Label: 2 -

**15. REGULATORY INFORMATION**

In accordance with the Dangerous Preparations Directive 99/45, the product is labelled as follows:

Danger classification: F (Highly flammable), Xn (Harmful)

Contains: DGEBA - Epoxy resin (mw<=700), Middlemolecular epoxyresin, Dimethyl ether

R-Phrases: R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

R43 May cause sensitization by skin contact.

S-Phrases: S1/2 Keep locked up and out of the reach of children.

S16 Keep away from sources of ignition-no smoking.

S23 Do not breathe vapour/spray.

S24 Avoid contact with skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S29 Do not empty into drains.

S36/37/39 Wear suitable, protective clothing, gloves and eye/face protection.

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	S38	In case of insufficient ventilation, wear suitable respiratory equipment.
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Other phrases:	P92	Contains epoxy constituents. See information supplied by the manufacturer.
	P96	Pressurised container. Keep out of direct sunlight and avoid temperatures in excess of 50°C.
	P97	Do not spray in the direction of flames or glowing objects.
	P99	Contains a sensitising substance. May produce an allergic reaction.

This information is provided by the present Material Safety Data Sheet.

#### 16. OTHER INFORMATION

Full text of R-phrases listed in Section 2:

R10	Flammable.
R11	Highly flammable.
R12	Extremely flammable.
R20	Harmful by inhalation.
R20/21	Harmful by inhalation and in contact with skin.
R22	Harmful if swallowed.
R36/38	Irritating to eyes and skin.
R37/38	Irritating to respiratory system and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.

The information of this safety data sheet is based on the present state of our knowledge and on current EEC and national laws, as the user's working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified under Section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information contained in this safety data sheet is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products' properties.

The information contained in this safety data sheet is provided in accordance with the requirements of the Commission Directive 99/45.

#### LIST OF COLOURS

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