



# MATERIAL SAFETY DATA SHEET

## (Polyurethane Paints)

Issue Date : 13 - 05 - 2004  
Printing Date : 13 - 05 - 2004.

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : Polyurethane Paints Clear Or Pigmented  
Chemical Description : A blend of Saturated hydroxylated polyester and pigments in organic solvents  
Supplier : MAS Paints & Chemicals Industry.  
Telephone & Fax No : 00971 - 06 - 5311777, 00971 - 06 - 5311330

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components with in the meaning of EEC directive 67 / 548 and corresponding classification :  
32% xylene

N. 67.548/CEE: 601-022-00-9 CAS: 1330-20-7 EINECS: 215-535-7

Xn Harmful

R38 Irritating to skin.

R20/21 Harmful by inhalation and in contact with skin.

8% ethylbenzene

N. 67.548/CEE: 601-023-00-4 CAS: 100-41-4 EINECS: 202-849-4

Xn Harmful

R20 Harmful by inhalation.

### 3. HAZARD IDENTIFICATION

The product is a liquid that can catch fire at temperatures in excess of 21 ° C if exposed to an ignition source. The product is harmful following acute exposure to it and poses a serious health threat if inhaled or if brought into contact with the skin.

If brought into contact with the skin, the product causes appreciable inflammation, with erythema, scabs, and oedema

### 4. FIRST AID MEASURES

Contact with skin : Immediately take off all contaminated clothing.  
: Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Contact with eyes : Do not use wash or ointment of any kind (before obtaining an examination or advice from an eyes specialist).  
Wash immediately with water for at least 10 minutes.

Swallowing : Do not under any circumstance induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.  
: Give liquid paraffin to drink; do not give milk or animal or vegetable fats of any kind.

Inhalation : Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilate area. OBTAIN MEDICAL ATTENTION.

## 5. FIRE FIGHTING MEASURES

- Recommended extinguishers : Foam, sand and  $\text{CO}_2$   
Extinguishers not to be used : None in particular  
Risks arising from combustion : Avoid inhaling the fumes.  
Protective equipment : Use protection for the respiratory tract:  
Cool the containers exposed to the fire with water.
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## 6. ACCIDENTAL RELEASE MEASURE

- Measures for Personal safety : Use a mask, gloves and protective clothing.  
Environmental Measures : Limit leakages with earth or sand.  
: Eliminate all unguarded flames and possible sources of ignition. Do not smoke.  
: If the product has escaped into a water course, into the drainage system, or has contaminated the ground or vegetation, notify the competent authorities.  
Cleaning Methods : Rapidly recover the product. To do so, wear a mask and protective clothing.  
: If the product is in a liquid form. Stop it from entering the drainage system.  
: Recover the product for re-use if possible, or for elimination. The product might, where appropriate, be absorbed by inert material.  
: After the product has been recovered, rinse the area and materials involved with water.
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## 7. HANDLING AND STORAGE

- Handling precautions : Avoid contact and inhalation of the vapours. See, too, paragraph 8 below.  
: Do not eat or drink while working.  
: Do not smoke while working.  
Storage Conditions : Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.  
Instructions as regards storage premises : Cool and adequately ventilated.
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## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

- Precautionary measures : Give adequate ventilation to the premises where the product is stored and /or handled.  
Respiratory protection : Use adequate protective respiratory equipment, e.g. CEN/FFP-2(S) or CEN/FFP-3 (S).  
Protection for hands : Use protective gloves that provides comprehensive protection e.g. P.V.C. neoprene or rubber.  
Eye Protection : Use close fitting safety goggles and /or visor conforming to BS 2092 (GRADE 1).  
Protection for skin : Use clothing that provides comprehensive protection to the skin, e.g. cotton, Rubber P.V.C. or viton.  
Exposure limit (s) (ACGIH) :  
Xylene : TLV TWA : 436mg /m<sup>3</sup>, 100ppm TLV STEL : 651 mg /m<sup>3</sup>, 150ppm  
Ethylbenzene : TLV TWA : 434mg /m<sup>3</sup>, 100ppm TLV STEL : 543 mg /m<sup>3</sup>, 125ppm

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance and colour : Colourless liquid Or Pigmented.  
Odour : Solvents  
Boiling point : 138 °C  
Flash point : 24 °C  
Autoignition : 500 °C  
Flammable limits :  
Lower (Vol.%) : 1.1  
Upper (Vol.%) : 6.6
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Expositive Properties	: 6.6
Vapour pressure	: 8 mbar @ 20 °C
Relative density	: 1.00 to 1.5 Kg / ltr @ 20 °C
Viscosity	: 1400 to 20,000 mPa.s @ 25 °C
Solubility in water	: Almost insoluble

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## 10. STABILITY AND REACTIVITY

Conditions to avoid	: stable under normal conditions.
Substances to avoid	: avoid contact with combustibile materials. The product could catch fire
Hazardous decomposition products	: it may match fire on contact with oxidising mineral acids, and powerful oxidising agents.

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## 11. TOXICOLOGICAL INFORMATION

The concentration of each substance be borne in mind in assessing the toxicological effects deriving from the preparation.

Set out below is the toxicological information relating to the main substances in the preparation.

Xylene	: OBSERVATION ON HUMAN SUBJECTS NON-PROFESSIONAL EXPOSURE - Effects Following acute exposure: : Symptoms of intense exposure are: dermatitis, eczema, irritation to the eyes and to the respiratory tract. Inhaling the vapours can cause dizziness, headache, nausea, incoordination, excitability, narcosis, anaemia, and paraesthesia, of the hands and feet. PROFESSIONAL EXPOSURE - effect following acute exposure: Narcotic at high concentrations. Irritation through inhalation at 200 ppm (TCLo). Inhalation of 200 ppm has irritation effect in human subjects. Human subjects (oral)(LDLo): 50 mg / kg. Inhalatory human subject (LCLo) 10000 ppm /6h.
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## 12. ECOLOGICAL INFORMATION

Adopt good working practices. So that the product is not released into the environment.

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## 13. DISPOSAL CONSIDERATIONS

Recover, if possible. Send authorised disposal plants or for incineration under controlled conditions. In so doing comply with the local and national regulations currently in force.

## 14. TRANSPORT INFORMATION

ROAD (ADR/ RAIL (RID)	:		
Class	: 3	Item	: 31 °C
Label	: 3	Risk identification	: 30
SEA (IMDG/IMO)			
Class	: 3.3	Packing group Item	: III
EmS number	: 3 -05	MFAG number	: 310 page 3379
Label	: 3		
AIR (ICAO/ IATA)			
Class	: 3	Packing group Item	: III
Packing Instruction	: 309 (passengers) 310 Cargo		
UN number	UN 1866		
Proper Shipping name:		Polyurethane Paints, Flammable.	

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## 15. REGULATORY INFORMATION

### Label information

88 / 379 EEC ( Classification and Labelling ):

Symbols : Xn Harmful

Risk phrases : R 10 Flammable

: R 20 /21 Harmful by inhalation and in contact with skin.

: R 38 Irritating to skin.

Safety phrases : S 43 in case of fire, use ... (indicate in the space the precise type of the fire  
-fighting equipment. If water increases risk, add -'Never use water')

: 25. Avoid contact with eyes.

: S 36/37 Wear Suitable protective clothing and gloves.

Contents : Xylene

Where applicable, refer to the

following regulatory provisions: Directive 82/501/EEC ('Activates linked to risks of serious accidents') and subsequent amendments.

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## 16. OTHER INFORMATION

Main bibliographic sources : ECDIN - Environmental Chemicals Data and Information Networking - Joint  
Research Centre, Commission of the European Communities.  
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS -Eight  
Editions - Van Nostrand Reinold.  
ACGIH - Treshold Limited Values -1997 edition.

This information only concerns the above-mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

This MSDS cancels and replaces any preceding release.

Editor : **MAS Paints & Chemicals Industry.**