

# 1000 HN HARDENER

## MATERIAL SAFETY DATA SHEET

Health: 2

Flammability: 2

Reactivity: 0

Producer : Sericom Italia S.r.l.  
Trade name : PAD PRINTING HARDENER SERIES 1000HN  
Printing date : 09/06/2007  
Reviewed on : 09/06/2007  
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### 01. IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY

Trade name: 1000-HN SERIES  
Distributor: Inkcups Now (ICN)  
20 Locust St., Suite 104 – Danvers MA. 01923  
Tel. 978-646-8980 Fax. 978-646-8981

Emergency Telephone No. Centrec 1-800-424-9300

### 02. COMPOSITION/INFORMATION ON COMPONENTS

| Hazardous components         |         | N. CAS              |
|------------------------------|---------|---------------------|
| xylene                       | 8-10%   | 1330-20-7           |
| Symbol                       | Xn      | R: 20/21 – 38       |
| ethylbenzene                 | 2-3%    | 100-41-4            |
| Symbol                       | Xn      | R: 20               |
| 1-metoxxy-2-propylacetate    | 11-12,5 | 108-65-6            |
| Symbol                       | Xi      | R: 10 - 36          |
| examethylen-1,6-diisocyanate | <0,5%   | 822-06-0            |
| Symbol                       | T       | R:23-36/37/38-42/43 |
| aliphatic polyisocyanate     | 74-76%  | 28182-81-2          |
| Symbol                       | Xi      | R: 43               |

Limit concentration for the danger symbol T = from 2%

Limit concentration for the danger symbol Xn = from 0,5%

### 03. HAZARDS IDENTIFICATION

Hazard designation: Xn Harmful

### 04. FIRST AID MEASURES

General: Remove immediately all contaminated clothes. In all cases of doubt, or when symptoms persist, seek medical attention.

Inhalation: Take the casualty into fresh air and keep at rest and warm.

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Skin contact: Wash away with neutral soap and water. Wash garments before wearing them.

Eyes contact: Flush with plenty of water. Consult a doctor.

Ingestion: Rinse the mouth. Do not induce vomiting. Consult a doctor.

## 05. **FIRE-FIGHTING MEASURES**

Suitable Extinguishing media: Alcohol resistant, foam, CO<sub>2</sub>, powder, water spray.

Not suitable Extinguishing media: None in particular.

Special risk posed by combustion

products: Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Protective equipment: Put on an appropriate breathing apparatus. Cool endangered containers with water in case of fire.

## 06. **ACCIDENTAL RELEASE MEASURES**

Personal precautions: Remove ignition sources, provide for sufficient ventilation. Refer to protective measures listed in section 7 and 8.

Environmental precautions: Do not empty into drains or river. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

Cleaning up methods: Contain and collect spillage with not-combustible absorbent material like sands, vermiculite, earth, diatomaceous earth, and place in container for disposal according to the local regulations. Clear the contaminated area with a detergent; avoid use of solvents.

## 07. **HANDLING AND STORAGE**

Information for safe handling: Avoid contact with eyes and skin. Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentration higher than the occupational exposure limits. Furthermore, the products should be used only in areas in which all naked lights and other ignition sources have been excluded. Comply with the health and safety work laws.

Information about protection

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against explosions and fire : Vapour are heavier than air and may spread along floors. Vapour may form explosive mixture with air. Preparation may charge electrostatically: use always grounding leads when transferring from one container to another. Operators should wear antistatic footwear.

Requirements to be met by

storerooms: Electrical equipment should be protected according to the appropriate standards. Floor should be of conducting type. Keep containers tightly closed. Storage in a dry and cool room. Do not smoke.

Further information: Keep away from oxydizing agents, from strongly alkaline and strongly acid materials.

## 08. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Precautionary measures: Provide adequate ventilation in order to meet the suggested TLV data at workplace:

|                              |     |                               |
|------------------------------|-----|-------------------------------|
| Xylene                       | TLV | 434 mg/m <sup>3</sup>         |
| 1-metoxi-2-propylacetate     | TLV | n.c MAK 275 mg/m <sup>3</sup> |
| examethylen-1,6-diisocyanate | TWA | 0,034 mg/m <sup>3</sup>       |

Respiratory equipment: Wear a suitable breathing protection in case of inadequate ventilation.

Hands protection: Use protective gloves and protective creams.

Eyes protection: Use safety glasses.

Skin protection: Personal should wear protective clothing.

## 09. PHISICAL AND CHEMICAL PROPERTIES

|                       |                 |
|-----------------------|-----------------|
| Solubility in water : | None            |
| Fire point            | 460°C           |
| Flash point           | 38°C            |
| Boiling point         | 145°C           |
| Vapour tension        | 11 mbar at 20°C |
| Physical state        | liquid          |
| Colour                | yellow          |
| Odour                 | solvent         |

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## 10. STABILITY AND REACTIVITY

Conditions to avoid: Stable under recommended storage.  
Materials to avoid: Water. Keep away from oxydizing agents, strongly alkaline and strongly acid materials.  
Dangerous decomposition products: When exposed to high temperature may produce hazardous decomposition products such as carbon monoxide and dioxide smoke.

## 11. TOXICOLOGICAL INFORMATION

Experience on practise: There are no data available on the preparation.  
Skin contact: Irritation of the skin.  
Eyes contact: Irritating.  
Inhalation: In high concentration irritating to the mucous membranes. anesthetic effect.  
Ingestion: (Refer to paragraph no. 16)

## 12. ECOLOGICAL INFORMATION

Use the product according to practice and avoid to scatter it in the environment.

Acute bacterial toxicity: EC50>100-1000 mg/l  
(OECD Guideline for Testing of Chemicals, No. 209)

Acute toxicity fish: CL50>8,8 mg/l CL100=25,0 mg/l  
(OECD Guideline for Testing of Chemicals, No. 203)  
Specie: Brachydanio rerio (Danio rerio) test: 96h

## 13. DISPOSAL CONSIDERATION

If possible, salvage the product otherwise pass on to an appropriate incinerating plant or waste dump in accordance with local official regulations.

## 14. TRANSPORT INFORMATION

Maritime transport IMDG/GGVSee

Classification:

|             |      |                |
|-------------|------|----------------|
| IMDG-Code:  | 3.3  | IMDG-Page:     |
| ONU Number: | 1866 | MarPol:        |
| MFAG:       | 310  | EMS Number:305 |

Substance releasing the danger:

Packing group: III

Air transport ICAO-TI e IATA-DGR

Classification:

ICAO/IATA class: 3.3

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ONU Number : 1866

Substance releasing the danger:

Land transport/Railway transport ADR/RID e GGVS/GGVE

GGVS/GGVE : Class Number Letter

RID/ ADR : Class 3 Number 31 Letter c

## 15. **REGULATORY INFORMATION**

Classification according to EEC directives:

Danger symbol and danger designation: Xn Harmful

Contains: Xylene, aromatic polyisocyanate

Hazard-determining components of labelling:

R phrases: 10 Flammable.  
20/21 Harmful by inhalation and in contact with skin.  
43 May cause irritation in contact with skin.

S phrases: 24 Avoid contact with skin.  
51 Use only in well ventilated area.

## 16. **OTHER INFORMATION**

Absorption:

FOR PROFESSIONAL USE ONLY

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This data are based on our present knowledge. The final users have to check suitability and completeness of this information according to the specific requested needs. This safety data sheets cancel and substitute any previous edition.

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