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Revision Number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name** Q4304A Priming Solution for Coated Papers (w3250)

**Product Code** Q4304A

**Recommended Use** For use in industrial installations only

**Manufacturer** Michelman International Belgium SPRL  
Zoning Industriel  
B-6790 Aubange - Belgium  
website : [www.michem.com](http://www.michem.com)  
e-mail : [regulatory@michem.com](mailto:regulatory@michem.com)  
Tel. +32 63 38 18 00 Fax. +32 63 38 96 92

## 2. HAZARDS IDENTIFICATION

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC-No	CAS-No	Weight %	Classification
POLYETHYLENEIMINE	-	9002-98-6	2.5	Xn;R22 N;R51-53

For the full text of the R-phrases mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately if symptoms occur.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

**Ingestion** Rinse mouth. If symptoms persist, call a physician.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

## 5. FIRE-FIGHTING MEASURES

### Flammable Properties

Not flammable

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

### Extinguishing media which shall not be used for safety reasons

No information available.

### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.

### Protective Equipment and Precautions for Firefighters

Wear self-contained breathing apparatus and protective suit

## 6. ACCIDENTAL RELEASE MEASURES

### Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas

### Personal Precautions

Avoid contact with the skin and the eyes

### Methods for Cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)

## 7. HANDLING AND STORAGE

### Handling

Ensure adequate ventilation

### Storage

Keep container tightly closed. Keep from freezing.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Limits

The product does not contain any hazardous materials with occupational exposure limits established.

### Occupational Exposure Controls

#### Engineering Measures

Ensure adequate ventilation, especially in confined areas

#### Personal Protective Equipment

##### Respiratory Protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required

##### Eye Protection

Goggles

##### Skin and Body Protection

Wear protective gloves/clothing

#### Hygiene Measures

When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use.

#### Environmental exposure controls

Do not allow material to contaminate ground water system

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical State	Liquid	pH	Not determined
Appearance	Translucent	Odor	Characteristic
Specific Gravity	1.000		

10. STABILITY AND REACTIVITY

Conditions to Avoid	Heat, flames and sparks
Materials to Avoid	No information available.

11. TOXICOLOGICAL INFORMATION

Product Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
POLYETHYLENEIMINE	2200 mg/kg ( Rat )		

12. ECOLOGICAL INFORMATION

Ecotoxicity effects	Contains a substance which is: Dangerous for the environment However, at the concentration present, this preparation is not expected to present significant adverse environmental effects
Persistence and Degradability	No information available
Bioaccumulative Potential	No information available
Mobility	No information available

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products	Dispose of in accordance with local regulations
Contaminated Packaging	Dispose of in accordance with local regulations

14. TRANSPORT INFORMATION

ADR

Description	Not Regulated
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14. TRANSPORT INFORMATION

**IATA**  
Description Not regulated

15. REGULATORY INFORMATION

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

**Labelling**

Symbol(s) None

**R-phrase(s)**

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**S-phrase(s)**

S35 - This material and its container must be disposed of in a safe way  
S59 - Refer to manufacturer/supplier for information on recovery/recycling  
S61 - Avoid release to the environment. Refer to special instructions/safety data sheets

**WGK Classification** WGK 1

**International Inventories**

EINECS (Europe)	Complies
TSCA (USA)	Complies
DSL (Canada)	Complies
PICCS (Philippines)	Complies
ENCS (Japan)	Complies
IECSC (China)	Complies
AICS (Australia)	Complies
KECL (Korea)	Complies
ERMA (New Zealand)	Complies

16. OTHER INFORMATION

**Text of R-phrases mentioned in Section 3**

R53 - May cause long-term adverse effects in the aquatic environment  
R51 - Toxic to aquatic organisms  
R22 - Harmful if swallowed

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16. OTHER INFORMATION

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Revision Date 13-Aug-2010

Revision Note \*\*\* - Indicates changes to MSDS

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet