



# NYLEX CORPORATION PTY.LIMITED

Division of Polymer Products  
25-29 Nepean Highway, Mentone, Victoria, 3194, Australia

TEL: 61-3-9581-0211  
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ACN: 084 725 002

## \*\*\* MATERIAL SAFETY DATA SHEET \*\*\*

VERSION: pp047/1

DATE: 29.9.99

### IDENTIFICATION

**PRODUCT NAME:** Tank Liner

**TRADE NAME:** AEON

**OTHER NAMES:** APTL75205QY

U.N. NO.: None allocated

DA

DANGEROUS GOODS CLASS: }

SUBSIDIARY RISK: }

HAZCHEM CODE: }

POISON SCHEDULE: }

NOT  
APPLICABLE

FORMULATION NO: 62004013GY1663/70

### PHYSICAL DESCRIPTION AND PROPERTIES

**APPEARANCE:** Homogeneous sheet essentially odourless  
**BOILING POINT:** Not applicable  
**MELTING POINT:** Not applicable  
**SOLUBILITY (water):** Insoluble  
**VAPOUR PRESSURE:** Not applicable  
**VOLATILES:** Not applicable  
**SPECIFIC GRAVITY:** 1.18 @ 21 °C  
**FLASH POINT:** More than 200 °C  
**AUTOIGNITION:** More than 250 °C  
**CHEMICAL REACTIVITY:** Stable. During fabrication the weld area can exhibit a degree of degradation although this is dependent on temperature and environmental conditions. A variety of decomposition products may occur; the main one being HCL since the polymer contains chlorine. Other toxic/irritating products (carbon monoxide, carbon dioxide, organic esters (including acrylates, and alcohols) may also be present in small concentrations. [See Health Effects]

**MAJOR RECOMMENDED USES:** Tank lining

### INGREDIENTS

RAW MATERIALS	SYNONYMS	CAS NO.	PROPORTION
Poly (vinyl) chloride	PVC	9000-86-2	50-60%
Ethylene Acrylate copolymer			20-40%
Phthalate Plasticiser	-	117-81-7	< 10%
Epoxydised oil			< 10%
Pigments			< 5%
Thermal Stabilizers (Ca/Zn)			< 3%
Non-regulated stabilisers, light absorbers, lubricants			< 2%

### HEALTH HAZARD INFORMATION

#### HEALTH EFFECTS

Products are unlikely to cause skin irritation but in its molten state the temperature exceeds 150 deg C and will cause severe burns

*Ma...*

Nylex Polymer Products

MSDS No. PP071 Version 03 "Tanking and general purpose lagoon membranes"



# NYLEX POLYMER PRODUCTS

A DIVISION OF NYLEX CORPORATION PTY LTD  
25-29 Nepean Highway, Mentone, Victoria 3194, Australia  
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## ... MATERIAL SAFETY DATA SHEET ...

MSDS No: PP071  
VERSION: 03  
ISSUE DATE: 27/11/00

### IDENTIFICATION

**PRODUCT NAME:** Tanking and general purpose lagoon membranes

**TRADE NAME:** Aeon XOR, XOL, PTR, PTL

**OTHER NAMES:** U.N. NO: None Allocated  
DANGEROUS GOODS CLASS: None Allocated  
SUBSIDIARY RISK: None Allocated  
HAZCHEM CODE: None Allocated  
POISON SCHEDULE: None Allocated

**MANUFACTURER'S PRODUCT CODE:** AXOR, AXOL, APTR, APTL,

**FORMULATION NO:** 62004017, 62004018, 62004019, 62004013,

### PHYSICAL DESCRIPTION AND PROPERTIES

**APPEARANCE:** Embossed soft PVC sheeting and scrim laminated products

**SOLUBILITY (water):** Negligible

**VOLATILES:** Negligible at ambient temperatures

**SPECIFIC GRAVITY:** 1.28 Nominal

**FLAMMABILITY:** Combustible

**AUTOIGNITION TEMPERATURE:** Approx. 450°C for PVC

**DECOMPOSITION TEMPERATURE:** Approx. 150°C for PVC (Time Dependent)

**COMMON USES:** Tanking general purpose lagoon membranes

### INGREDIENTS

RAW MATERIALS	SYNONYMS	CAS NO.	PROPORTION
Poly Vinly Chloride	PVC	9002-86-2	More than 40%
Phthalate Plasticiser		117-81-7	10 - 30%
Ethylene Acrylic copolymer			>20%
Pigments/Fillers			Less than 20%
Epoxidised oil			Less than 5%
Stabilisers (including Calcium, Zinc compounds)			Less than 3%
Other Additives (UV absorber, Lubricant, Fungicides)			Less than 3%

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**PRECAUTIONS FOR USE (Cont)**

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**FLAMMABILITY/FIRE HAZARD:** Combustible material. Will not burn unless preheated. Take precautions against static electricity discharges. Ensure adequate ventilation. All process equipment should be earthed and flameproof. Refer to AS 1940-1988.

**FIRE FIGHTING RECOMMENDATIONS:** Use self-contained breathing apparatus to avoid exposure to the products of combustion.

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**SAFE HANDLING INFORMATION**

**STORAGE & TRANSPORT:** Store in a cool dry place, and use away from heat, naked flames or sparks. Folding should be kept to a minimum and be loose.

**SPILLS AND DISPOSAL:** Molten product should be hosed with water and allowed to cool. Place solidified material in disposal or reclamation containers. The preferred options for disposals are - (1) recycling, (2) incineration with energy recovery and (3) landfill. The treatment, storage, transportation and disposal must be in accordance with applicable federal, state and local regulations.

**FIRE/EXPLOSION HAZARD:** Combustible material. Will not burn unless preheated. Material will generally burn slowly with a medium smoke density. Under certain conditions it can burn with a high smoke density. Smoke from burning polyvinylchloride blends will contain toxic gases. Do not enter confined space without adequate protective clothing. Emergency personnel should wear:- Leather boots and gloves, headgear, face shield, suitable fire resistant non melting clothing and have an air supplied or self contained breathing apparatus. Use foam, Carbon dioxide, dry agent or water fog/spray on fires.

**OTHER INFORMATION:**

**CONTACT POINT:** Technical Service Manager, Mentone Victoria, ph: 61-3-9581-0410

**DATE:** 29.9.99

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**This MATERIAL SAFETY DATA SHEET has been compiled by NYLEX CORPORATION PTY.LIMITED. The information contained herein is presented in good faith and is believed to be correct at the time of issue. The data is not to be taken in any way as a warranty or representation for which NYLEX CORPORATION PTY. LIMITED assumes any legal responsibility and persons using this information will make their own determination as to its suitability and use in accordance with applicable Commonwealth, State and Local Laws and Regulations.**

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## HEALTH HAZARD INFORMATION (CONT)

Pre-existing eye and respiratory complaints may be aggravated by exposure to fumes during fabrication. The decomposition products will contain HCL and the asphyxiants CO and HCN will not be lethal, unless the exposure is to very high concentrations and for long periods.

However, HCL has a very disagreeable odour, noticeable at an extremely low concentration: less than 1 ppm. Moreover low concentrations of HCL can cause unpleasant irritating effects. The appearance of such an odour at a concentration much lower than one which will cause health effects may serve, of course, as a warning to leave the room or area, although it produces the erroneous impression that HCL6 is causing severe harm.

### ACUTE

**SWALLOWED:** Not applicable

**EYE:** Product slivers, fines may cause mechanical irritation to the eyes.

**SKIN:** Contact with hot product can cause burns.

**INHALED:** There is no release of any obnoxious fumes at ambient temperatures. If heated to temperature above 150 deg C the fumes could be irritating to the respiratory system.

### CHRONIC

**SWALLOWED )**

**EYE: )** No information available

**SKIN: )**

**INHALED: )**

### FIRST AID

**SWALLOWED:** Not applicable

**EYE:** If irritation occurs, hold eyes open and flood with water for 15 mins. If irritation persists, obtain medical attention.

**SKIN:** Wash with soap and water. Burns should be cooled with cold water or ice. Do not use ice or cold packs if burned area covers more than 10% of the body as this may contribute to shock. Leave burned area uncovered. **DO NOT TRY TO REMOVE PRODUCT FROM THE SKIN.** See immediate medical advice.

**INHALED:** Treatment is not ordinarily required, but if adverse symptoms do occur removal from exposure should bring a rapid recovery. If symptoms persist, seek medical advice.

**ADVICE TO DOCTOR:** Pre-existing eye and respiratory complaints may be aggravated by exposure to fumes during fabrication. Burns: No attempt should be made to remove the solidified product (it acts as a sterile dressing).

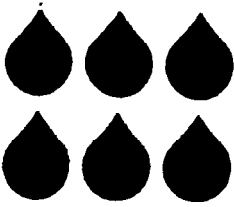
### PRECAUTIONS FOR USE

<b>EXPOSURE LIMITS:</b>	<b>TWA</b>	<b>(Worksafe)</b>	<b>10 pm, 55 mg/m<sup>3</sup></b>
	<b>PEL</b>	<b>(OSHA)</b>	<b>None established</b>
	<b>TLV</b>	<b>(ACGIH)</b>	<b>10 ppm, 52 mg/m<sup>3</sup> 8 hr. TWA, A4</b>

**VENTILATION:** Should be provided to remove fumes generated during fabrication. (Welding). No special ventilation is normally required in handling the products at ambient temperatures.

**PERSONAL PROTECTION:** For normal use no special protection is required. When the products are heated during welding process adequate ventilation and/or engineering controls are necessary. Where the molten product is liable or likely to come in contact with the person, the following equipment is required.

1. Full face shield
2. Heat resistant gloves
3. Cotton combination overalls with close fit at neck and wrists
4. Leather or rubber boots (trousers worn outside)
5. Protective headgear



AUSTRALIAN WATER  
QUALITY CENTRE

Our Reference : REF 6854.97  
Enquiries : R.P. Walters  
Telephone : (08) 8259 0331  
Facsimile : (08) 8259 0228

Mr G Wood  
Nylex Corporation Ltd  
PO Box 68  
Mentone Vic 3194

Dear Mr Wood,

Attached is report to AS 4020(Int)-1994 for Formulation 17 material submitted for testing. The product passed all the requirements of the Standard at an exposure of 14000 mm<sup>2</sup> per Litre.

Should you have any enquiries about the report or any other matters pertaining to the Standard please contact Reg Walters on (08) 8259 0331 or Marilena Marchesan on (08) 8259 0332.

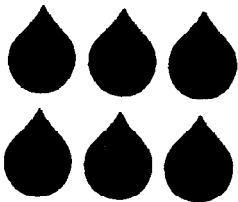
Yours sincerely,

R.P. Walters  
SENIOR MICROBIOLOGIST

07 5563 3544

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HODGSON ROAD, BOLIVAR, SOUTH AUSTRALIA  
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A BUSINESS UNIT OF THE SOUTH AUSTRALIAN WATER CORPORATION



AUSTRALIAN WATER  
QUALITY CENTRE



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Registration No 1115  
Registration No 1390

Chemical Testing  
Biological Testing

### CERTIFICATE OF TEST

REPORT NUMBER 4007/92.395

SAMPLE REFERENCE 6854.97

DATE 12/06/97

TRADE NAME OF PRODUCT FORMULATION 17.

COMPOSITION OF PRODUCT PVC & ETHYLENE INTERPOLYMER ALLOY.

PRODUCT MANUFACTURER NYLEX FILM AND FABRICS, A DIVISION OF NYLEX CORPORATION LTD., NEPEAN HIGHWAY, MENTONE, VIC.

SUBMITTING ORGANISATION NYLEX FILM AND FABRICS, A DIVISION OF NYLEX CORPORATION LTD., NEPEAN HIGHWAY, MENTONE, VIC.

USE OF PRODUCT TANK LINER.

TESTING REQUESTED AS 4020(Int)-1994

*PRODUCTS FOR USE IN CONTACT WITH WATER INTENDED FOR HUMAN CONSUMPTION WITH REGARD TO THEIR EFFECT ON THE QUALITY OF WATER*

(ON SAMPLES RECEIVED AT THE AUSTRALIAN WATER QUALITY CENTRE)

SAMPLES SAMPLES WERE PREPARED AND CONTROLLED AS DESCRIBED IN APPENDIX A OF AS 4020(Int)-1994

EXTRACTS EXTRACTS WERE PREPARED AS DESCRIBED IN APPENDICES B - G AS INDICATED.

TEST REPORT

**COMMENCES ON PAGE 2. PLEASE NOTE THAT THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL**

R.P. WALTERS  
APPROVED SIGNATORY



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PAGE 1 OF 10

**TEST REPORT FOR AS 4020(INT)-1994**

**CLAUSE 5 - TASTE OF WATER EXTRACTS**

**TESTING LABORATORY** AUSTRALIAN WATER QUALITY CENTRE  
PORT WAKEFIELD ROAD, BOLIVAR, SOUTH AUSTRALIA  
(NATA Registration No. 1115)

**REPORT NUMBER** 4007/92.395

**SAMPLE REFERENCE** 6854.97

**DATE** 12/06/97

**TRADE NAME OF PRODUCT** FORMULATION 17.

**COMPOSITION OF PRODUCT** PVC & ETHYLENE INTERPOLYMER ALLOY.

**PRODUCT MANUFACTURER** NYLEX FILM AND FABRICS, A DIVISION OF NYLEX CORPORATION LTD.,  
NEPEAN HIGHWAY, MENTONE, VIC.

**SUBMITTING ORGANISATION** NYLEX FILM AND FABRICS, A DIVISION OF NYLEX CORPORATION LTD.,  
NEPEAN HIGHWAY, MENTONE, VIC.

**USE OF PRODUCT** TANK LINER.

**DESCRIPTION OF SAMPLE** Each sample consisted of a panel of dimensions 75 x 100 mm providing a  
total surface area of 15000 mm<sup>2</sup>.  
Extracts were prepared using 1000 mL volumes of water.

**TEST METHOD** AS 4020(Int)-1994 TASTE OF WATER EXTRACT (APPENDIX B)

**SCALING FACTOR** Not applied.

**RESULTS** No tastes were detected in the extracts prepared with either the chlorinated  
or unchlorinated water from the products or the controls.

**EVALUATION** The product passed the requirements of clause 5 at an exposure of 15000  
mm<sup>2</sup> per Litre.

**NUMBER OF SAMPLES** Two samples were tested.

*M. Drikas*

**M.DRIKAS - SENIOR CHEMIST**  
**APPROVED SIGNATORY**

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