

19 PUBLICATION SUMMARY REPORT

**Polymer in Disperbyk-185
Summary Report
Reference No: Ex/60**

An Assessment Certificate for the notified polymer known by the name Polymer in Disperbyk-185 was granted to Nuplex Industries (Aust) Pty Ltd (ABN 25 000 045 572) of 49-61 Stephen Road Botany, NSW 2019.

The Assessment Report for Polymer in Disperbyk-185 is identified by the sequence number LTD/1103 (Limited: Polymer with NAMW \geq 1000 (greater than 1 tonne per year).

Since granting of the abovementioned Assessment Certificate, Degussa Coatings and Colorants Pty Ltd (ABN 16 079 823 313) of 30 Commercial Drive Dandenong South VIC 3175 has submitted a notification statement in support of their application for an extension of the original Assessment Certificate for Polymer in Disperbyk-185. Nuplex Industries (Aust) Pty Ltd has agreed to this extension.

Information submitted by Degussa Coatings and Colorants Pty Ltd pertains to the introduction of the notified polymer for formulation into a colorant which will be solely used for tinting both aqueous emulsion paints (20% of use) and enamel alkyd and modified alkyd paints (20% of use). The final tinted paint would contain less than <1% notified polymer.

ASSESSMENT OF PUBLIC, OCCUPATIONAL HEALTH AND SAFETY AND ENVIRONMENTAL EFFECTS**Hazard Assessment**

The notified polymer was of low acute oral toxicity in rats ($LD_{50} > 2000$ mg/kg bw), was not a skin irritant in rabbits and was a slight eye irritant in rabbits. The polymer has a NAMW > 1000 , low levels of low molecular weight species and would not be classified as a hazardous substance on the basis of residual monomer content. In addition adverse health effects from reactive functional groups can be predicted to be unlikely, as these will be involved in bonding to pigment and not available for exposure.

Occupational Health and Safety

There is Low Concern to occupational health and safety under the conditions of the occupational settings described (engineering controls and personal protective equipment).

Public Health

There is Negligible Concern to public health when used as specified in the notification statement.

Environmental Effects

The chemical is not considered to pose a risk to the environment based on its reported use pattern.

RECOMMENDATIONS

Control Measures

Occupational Health and Safety

- A copy of the MSDS should be easily accessible to employees.
- If products and mixtures containing the notified polymer are classified as hazardous to health in accordance with the NOHSC *Approved Criteria for Classifying Hazardous Substances*, workplace practices and control procedures consistent with provisions of State and Territory hazardous substances legislation must be in operation.

Environment

Disposal

- Wastes generated during industrial application should be disposed of through a licensed waste contractor. Wastes generated during domestic use should be disposed of according to the following instructions: “Do not pour unwanted paint down the drain. Keep unwanted paint in sealed containers for disposal via special chemical waste collections. Empty paint containers should be left open in a well-ventilated area to dry out. When dry, recycle steel containers via steel can recycling programs. Disposal of empty paint containers via domestic recycling programs may differ between local authorities. Check with your local council first.”

Emergency procedures

- Spills/release of the notified chemical should be soaked up with inert absorbent material and disposed of in accordance with State regulations. Do not allow spills to enter drains.

Secondary Notification

The Director of Chemicals Notification and Assessment must be notified in writing within 28 days by the notifier, other importer or manufacturer:

Under subsection 64(2) of the Act:

– if any of the circumstances listed in the subsection arise.

The Director will then decide whether secondary notification is required.

No additional secondary notification conditions are stipulated.

20 PUBLICATION SUMMARY REPORT

**PCTA 21427
Summary Report
Reference No: EX/64**

Holder of Original Assessment Certificate (First Applicant)

An Assessment Certificate for the notified polymer known by the name PCTA 21427 was granted to Eastman Chemical Limited (ABN 72 001 313 417) of Level 8, 15 Talavera Road, North Ryde NSW 2113.

The Assessment Report for PCTA 21427 is identified by the sequence number PLC/298.

Second Applicant

Since granting of the abovementioned Assessment Certificate, DuPont (Australia) Ltd (ABN 59 000 716 469) of 168 Walker Street North Sydney NSW 2060 has submitted a notification statement in support of their application for an extension of the Assessment Certificate for PCTA 21427 (THERMX 13319). Eastman Chemical Limited has agreed to this extension.

Information submitted by DuPont (Australia) Ltd pertains to the introduction of the notified polymer as a distributor in Australia. No increase in volume was forecast.

ASSESSMENT OF PUBLIC, OCCUPATIONAL HEALTH AND SAFETY AND ENVIRONMENTAL EFFECTS**Environmental Effects**

The notified polymer is not likely to present a risk to the environment when it is stored, transported and used in the proposed manner.

Hazard Assessment

The notified polymer meets the PLC criteria and is therefore unlikely to be a hazardous substance in accordance with the *Approved Criteria for Classifying Hazardous Substances* (NOHSC:1999). Excessive heat and degradation of the polymer could cause odours and fumes in the workplace. However, as this would also result in loss of usable product it is not expected to be a common occurrence. There have been no reports of health conditions associated with exposure to this polymer.

Occupational Health and Safety

Due to its low hazard and low potential for exposure during processing into plastic materials, Polymer PCTA 21427 (THERMX 13319) is of low risk to human health and safety and no specific risk reduction measures are necessary.

Public Health

In view of its high molecular weight, physical and chemical properties, and its use pattern, the notified polymer is unlikely to pose a significant risk to public health.

RECOMMENDATIONS

Control Measures

No special control measures are required for the notified polymer, however, in the interest of good occupational health and safety, the following measures are recommended:

Occupational Health and Safety

- Employers should ensure that the following personal protective equipment is used by workers to minimise occupational exposure to the notified polymer as introduced:
 - The use of PPE including safety glasses with side shields or goggles, gloves, boots, dust masks and protective work clothing such as overalls or laboratory coats is recommended

Guidance in selection of personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.

- A copy of the MSDS should be easily accessible to employees.

Secondary Notification

The Director of Chemicals Notification and Assessment must be notified in writing within 28 days by the notifier, other importer or manufacturer:

Under subsection 64(2) of the Act:

- if any of the circumstances listed in the subsection arise.

The Director will then decide whether secondary notification is required.

21 PUBLICATION SUMMARY REPORT

**Promidium IS
Summary Report
Reference No: EX/65**

Uniqema Australia Pty Ltd (ABN 00018084) of Level 39, 101 Collins St Melbourne VIC 3000 and Symex Holdings Ltd (ABN 29 091 035 353) of 14 Woodruff St Port Melbourne VIC 3207 have submitted a standard notification statement in support of their application for an assessment certificate for Promidium IS. The notified chemical is intended to be used as a cleansing agent, solubiliser, consistency agent and foam booster in personal care products and industrial cleaning agents. Personal care products will be either imported preformulated or formulated in Australia by batch processes. Less than 10 tonnes of the notified chemical will be imported per annum for each of the first five years.

Since the assessment certificate has been granted for the above notified chemical, Procter & Gamble Australia Pty Ltd (ABN 91 008 396 245) of 320 Victoria Road, Rydalmere NSW 2116 has submitted a supplementary information statement in support of their application for extension of the original assessment certificate, together with the written agreement of the holders of the original certificate, Uniqema Australia Pty Ltd (ABN 00018084) c/o Level 39, 101 Collins St Melbourne VIC 3000 and Symex Holdings Ltd (ABN 29 091 035 353) of 14 Woodruff St Port Melbourne VIC 3207. Procter & Gamble will be importing up to 4 tonnes of the notified chemical per annum, as an ingredient in formulated hair care products.

ASSESSMENT OF PUBLIC, OCCUPATIONAL HEALTH AND SAFETY AND ENVIRONMENTAL EFFECTS**Hazard Assessment**

Based on the available data, the notified chemical is classified as a hazardous substance in accordance with the NOHSC *Approved Criteria for Classifying Hazardous Substances* in terms of skin and eye irritation.

Occupational Health and Safety

There is Low Concern to occupational health and safety under the conditions of the occupational settings described.

Public Health

There is Negligible Concern to public health when used as described.

Environmental Effects

On the basis of the PEC/PNEC ratio, the notified chemical is not considered to pose a risk to the environment based on its reported use pattern and estimated volumes.

RECOMMENDATIONS

Regulatory Controls

Hazard Classification and Labelling

- The NOHSC Chemicals Standards Sub-committee should consider the following [health, environmental and physico-chemical] hazard classification for the notified chemical:
 - R36 Irritating to eyes
 - R38 Irritating to skin
- Use the following risk phrases for products/mixtures containing the notified chemical:
 - $\geq 20\%$: R36 Irritating to eyes
 - $\geq 20\%$: R38 Irritating to skin

Control Measures

Occupational Health and Safety

- Employers should ensure that the following personal protective equipment is used by workers to minimise occupational exposure to the notified chemical as introduced:
 - Impervious gloves

Guidance in selection of personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.

- A copy of the MSDS should be easily accessible to employees.
- If products and mixtures containing the notified chemical are classified as hazardous to health in accordance with the NOHSC *Approved Criteria for Classifying Hazardous Substances*, workplace practices and control procedures consistent with provisions of State and Territory hazardous substances legislation must be in operation.

Environment

- The following control measures should be implemented by reformulator to minimise environmental exposure during reformulation of the notified chemical:
 - Process areas should be bunded with all drains leading to a treatment plant or collection point.

Disposal

- The notified chemical should be disposed of to landfill.

Emergency procedures

- Spills/release of the notified chemical should be contained, collected and placed in sealable labelled container. The material should be reused if not contaminated. If contaminated then it should be disposed of to landfill.

Secondary Notification

The Director of Chemicals Notification and Assessment must be notified in writing within 28 days by the notifier, other importer or manufacturer:

Under Section 64(2) of the Act:

- if any of the circumstances listed in the subsection arise.

The Director will then decide whether secondary notification is required.

No additional secondary notification conditions are stipulated.

22 PUBLICATION SUMMARY REPORT

**Promidium CO
Summary Report
Reference No: EX/66**

Uniqema c/o Blake Dawson Waldron, Level 39, 101 Collins Street, Melbourne VIC 3000 has submitted a standard notification statement in support of their application for an assessment certificate for Promidium CO. The notified chemical is intended to be used as foam booster or fragrance solubiliser in industrial detergent formulations at up to 5% and personal care products such as shampoos at up to 4%. Less than 20 tonnes of the notified chemical will be imported per annum for each of the first five years.

Since granting of the abovementioned Assessment Certificate, Procter & Gamble Australia Pty Ltd (ABN 91 008 396 245) of 320 Victoria Road, Rydalmere NSW 2116 has submitted a notification statement in support of their application for an extension of the original Assessment Certificate for Promidium CO. Uniqema has agreed to this extension. Information submitted by Procter & Gamble Australia Pty Ltd pertains to the introduction of the notified chemical in personal hair care products. Introduction volumes will be 12 tonnes per year.

ASSESSMENT OF PUBLIC, OCCUPATIONAL HEALTH AND SAFETY AND ENVIRONMENTAL EFFECTS**Hazard Assessment**

In acute toxicity tests, the notified chemical was shown to possess very low oral and low dermal toxicity. Inhalation toxicity data were not provided.

A skin irritation test in rabbits showed thickening of the skin, desquamation and well-defined erythema in the presence or absence of slight oedema. Slight erythema was still evident at day 14. In a human patch test of a 5% aqueous solution, positive responses were observed in a minority of subjects but these appeared idiosyncratic in origin and not of clinical significance. An eye irritation test revealed corneal opacification in all animals. In addition, diffuse red colouration of conjunctivae with eyelid swelling were also observed. In one animal, iridal inflammation was evident up to day 14.

A skin sensitisation study in guinea pigs revealed that the notified chemical was not dermally sensitising.

No clear clinical or macroscopical evidence of toxicity was observed in a pilot 7-day repeated dose oral toxicity test in rats. In a more intensive 28-day study, a no observed effect level (NOEL) of 15 mg/kg/day and a no observed adverse effect level (NOAEL) of 1000 mg/kg/day were assigned.

The notified chemical was shown to be non mutagenic in an *in vitro* bacterial mutation assay. In an *in vivo* chromosome aberration assay, although increases in frequencies of chromosomal aberrations were observed, these were only at cytotoxic levels of test substance and the increases were non-reproducible. A mouse micronucleus assay also failed to indicate clastogenic properties of the notified chemical. Additionally, evidence of DNA damage was not observed in a DNA repair test in hepatocytes.

On the basis of these toxicological data, the notified chemical is determined hazardous and classified Irritant (Xi) according to the NOHSC *Approved Criteria for Classifying Hazardous Substances* with the risk phrases R36/38 – Irritating to Eyes and Skin.

Occupational Health and Safety

The notified chemical will be imported in neat liquid form in 200L high density polyethylene drums and also in finished shampoos in 125 - 500 mL plastic bottles at up to 4%. Formulated industrial detergent products containing up to 5% notified chemical will be packaged into containers ranging in size from 0.5 L to 200L.

Occupational exposure to the notified chemical is unlikely during import, transport and storage and would only be envisaged following accidental puncture of the polyethylene drums or plastic bottles. If exposure to neat notified chemical occurs, skin and eye irritation would be expected. Irritation of lesser severity may also occur upon prolonged exposure to formulated products containing diluted notified chemical.

The notified chemical will be used to formulate industrial detergent products. Dermal and ocular exposure to the notified chemical may occur from spillage during initial charging of the mixing vessel with the imported liquid chemical. Exposure to diluted notified chemical may occur also from slops and splashes during the filling of product containers. In addition, inhalation exposure is possible from fugitive aerosols generated from the mixing process. Maintenance workers are likely also to experience dermal exposure with the notified chemical during routine plant maintenance. Dermal or ocular contact with the notified chemical especially in neat form would be expected to result in persistent irritation. Respiratory irritation would be expected also if inhalation exposure occurs.

In this respect, personal protective equipment consisting of impervious coveralls gloves and eyewear should be worn when handling the neat notified chemical.

During end-use, cleaning workers may be exposed to the notified chemical mainly via the dermal route during “mop and bucket” applications of industrial cleaning solutions containing up to 5% notified chemical. Although acute exposure is unlikely to result in health effects, prolonged or repeated exposure may result in dermal and/or ocular irritation. In addition to protective clothing, plastic or rubber gloves should be used to limit dermal exposure during these activities.

Public Health

As the chemical is used in personal care products, namely shampoo, public exposure is significant. Public exposure through cleaning products is expected to be possible, but less significant. A 60 kg woman applying 12 g of shampoo, containing 4% concentration of the notified chemical, will be exposed to 0.8 mg/kg/d of the chemical (assuming 10% dermal absorption) which is well below the NOEL of 15 mg/kg/d and very well below the acute toxicity of 2000 mg/kg. The notified chemical is a moderate eye irritant, however, shampoo products are known to be eye irritants. Alternatively, in the product “Johnson’s Baby Shampoo”, the notified chemical is present at no more than 0.5%, and a low irritancy potential is claimed on the label. The chemical is a slight skin irritant and is not a skin

sensitiser. Therefore the notified chemical is not likely to pose a significant threat to public health.

Environmental Effects

The chemical will be imported into Australia and will be used as a component in a personal care products and industrial cleaners. The end use products will be distributed nation wide. Through use, the majority of the chemical is expected to be released to the sewer. In the sewer, much of the chemical may be adsorbed to the sludge due to its surfactant properties, which will be sent either to landfill or incinerated. The notified chemical remaining in solution will be further diluted and degraded. The notified chemical is considered not to be readily biodegradable but likely to be inherently biodegradable.

Ecotoxicity studies indicate that the notified chemical is not toxic to bacteria, moderately toxic to fish and daphnia and highly to very highly toxic to algae.

A predicted No Effect Concentration (PNEC) of 7.2 µg/L can be determined by applying an assessment factor to the most sensitive species Green Algae ($EC_{50} = 0.72 \mu\text{g/L}$). The assessment factor of 100 was chosen as acute data are available for all trophic levels but no chronic data are available.

The amount discharged with the treated waste water is estimated to be 0.98 µg/L after dilution in receiving waters. This calculation is based on a worst case scenario with maximum expected import volume of 10 tonnes, Australia wide use, and 0% adsorption to sewage sludge. The Safety Factor for this chemical and the Predicted Environmental Concentration indicate a low potential environmental hazard.

RECOMMENDATIONS

To minimise occupational exposure to Promidium CO, the following guidelines and precautions should be observed:

Regulatory controls

- The NOHSC Chemicals Standards Sub-committee should consider the following health hazard classification for the notified chemical:

R36/38 – Irritating to Eyes and Skin

Occupational Health and Safety

- Employers should ensure that the following personal protective equipment is used by workers to minimise occupational exposure to the notified chemical:

Protective eyewear, chemical resistant industrial clothing and footwear and impermeable gloves should be used during occupational use of the neat notified chemical. Where engineering controls and work practices do not to control exposure to aerosols containing the notified chemical, a negative pressure organic vapour and particle respirator should be used;

During end-use of industrial cleaning products containing up to 5% notified chemical, in addition to protective clothing, plastic or rubber gloves should be used to limit dermal exposure;

Guidance in selection of protective eyewear may be obtained from Australian Standard (AS) 1336 and Australian/New Zealand Standard (AS/NZS) 1337; for industrial clothing, guidance may be found in AS 3765.2; for impermeable gloves or mittens, in AS 2161.2; for occupational footwear, in AS/NZS 2210; for respirators, in AS/NZS 1715 and AS/NZS 1716 or other internationally accepted standards;

- A copy of the MSDS should be easily accessible to employees;
- If products and mixtures containing the notified chemical are classified as hazardous to health in accordance with the NOHSC *Approved Criteria for Classifying Hazardous Substances*, workplace practices and control procedures consistent with provisions of State and Territory hazardous substances legislation must be in operation.

Emergency procedures

- Spillage of the notified chemical should be avoided. Spillages should be cleaned up promptly with absorbents which should be put into containers for disposal;

Secondary notification

The NICNAS Director must be notified in writing within 28 days by the notifier, other importer or manufacturer:

Under Section 64(1) of the Act:

- if more than 20 tonnes/year of the notified chemical is to be introduced, due to the narrow safety margin for algae data on the likely extent of adsorption to sludge and sediment may be requested.

Under Section 64(2) of the Act:

- if any of the circumstances listed in this subsection arise.

The Director will then decide whether secondary notification is required.

23 PUBLICATION SUMMARY REPORT

**Polymer in Klubertop TP 18-810
Summary Report
Reference No: PLC/318**

Klubertop Lubrication Australia Pty. Ltd. (ABN 77 005 809 852) of 1st Floor, 3 Brand Drive Thomastown VIC 3074 has submitted a synthetic polymer of low concern (PLC) notification statement in support of their application for an assessment certificate for Polymer in Klubertop TP 18-810. The notified polymer is an organic binder imported as part of a finished lubricant product Klubertop TP 18-810 for use in coating elastomer seals. Up to 300 kg of the notified polymer will be imported per annum for each of the first five years.

ASSESSMENT OF PUBLIC, OCCUPATIONAL HEALTH AND SAFETY AND ENVIRONMENTAL EFFECTS**Hazard Assessment**

The notified polymer meets the PLC criteria and can therefore be considered to be of low hazard.

Occupational Health and Safety

There is Low Concern to occupational health and safety under the conditions of the occupational settings described.

Public Health

There is Negligible Concern to public health when used in the proposed manner.

Environmental Effects

The chemical is not considered to pose a risk to the environment based on its reported use pattern.

RECOMMENDATIONS*Control Measures***Occupational Health and Safety**

- No specific engineering controls, work practices or personal protective equipment are required for the safe use of the notified polymer itself, however, these should be selected on the basis of all ingredients in the formulation.

Guidance in selection of personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.

- A copy of the MSDS should be easily accessible to employees.
- If products and mixtures containing the notified polymer are classified as hazardous to health in accordance with the NOHSC *Approved Criteria for Classifying Hazardous*

Substances, workplace practices and control procedures consistent with provisions of State and Territory hazardous substances legislation must be in operation.

Environment

- The following control measures should be implemented by end users to minimise environmental exposure during use of Klubertop TP 18-810 containing the notified polymer:
 - Do not allow the material or contaminated packaging to enter drains, sewers or watercourses.

Disposal

- Solid wastes generated during industrial application should be disposed of to landfill through a licensed waste contractor. Liquid wastes and contaminated clean up materials should be exposed to air and cured before being sent to landfill for disposal.

Emergency procedures

- Spills/release of the notified polymer should be handled by containment with absorbent material, collection and storage in a sealable and labelled container for disposal in accord with local authorities.

Secondary Notification

The Director of Chemicals Notification and Assessment must be notified in writing within 28 days by the notifier, other importer or manufacturer:

Under subsection 64(1) of the Act; if

- the notified polymer is introduced in a chemical form that does not meet the PLC criteria.

or

Under subsection 64(2) of the Act:

- if any of the circumstances listed in the subsection arise.

The Director will then decide whether secondary notification is required.

24 PUBLICATION SUMMARY REPORT

Polymer in AK0027P Siliconised Polyester Summary Report Reference No: PLC/451

The Valspar (Australia) Corporation Pty Ltd (ABN 82 000 039 396) of 203 Power Street, Glendenning, NSW has submitted a synthetic polymer of low concern (PLC) notification statement in support of their application for an assessment certificate for Polymer in AK0027P Siliconised Polyester. The notified polymer is intended to be used as an ingredient in paint formulations for industrial coil coating. Up to 1000 tonnes of the notified polymer will be imported per annum for each of the first five years.

ASSESSMENT OF PUBLIC, OCCUPATIONAL HEALTH AND SAFETY AND ENVIRONMENTAL EFFECTS

Hazard Assessment

The notified polymer meets the PLC criteria and is therefore considered to be of low hazard.

Occupational Health and Safety

There is Low Concern to occupational health and safety under the conditions of the occupational settings described.

Public Health

There is Negligible Concern to public health when used in the proposed manner.

Environmental Effects

The polymer is not considered to pose a risk to the environment based on its reported use pattern.

RECOMMENDATIONS

Control Measures

Occupational Health and Safety

- No specific engineering controls, work practices or personal protective equipment are required for the safe use of the notified polymer itself, however, these should be selected on the basis of all ingredients in the formulation.

Guidance in selection of personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.

- A copy of the MSDS should be easily accessible to employees.
- If products and mixtures containing the notified polymer are classified as hazardous to health in accordance with the NOHSC *Approved Criteria for Classifying Hazardous Substances*, workplace practices and control

procedures consistent with provisions of State and Territory hazardous substances legislation must be in operation.

Environment

- The following control measures should be implemented by the manufacturers to minimise environmental exposure during manufacture and use of the notified polymer and paint containing it:
 - Do not release the resin or paint products to sewer. Do not allow resin, paint products or containers to contaminate drains or waterways.

Disposal

- The notified polymer should be disposed of by incineration or to landfill.

Emergency procedures

- Spills/release of the notified polymer should be contained by absorbent material (eg sand), manually collected (along with absorbent material) and placed in a sealable, labelled container for disposal to landfill.

Secondary notification

The Director of Chemicals Notification and Assessment must be notified in writing within 28 days by the notifier, other importer or manufacturer:

Under subsection 64(1) of the Act; if

- the notified polymer is introduced in a chemical form that does not meet the PLC criteria.

The Director will then decide whether secondary notification is required

No additional secondary notification conditions are stipulated.

25 PUBLICATION SUMMARY REPORT

**Polymer in Aqua Urethane AU240A
Summary Report
Reference No: PLC/461**

Toyo Ink Australia Pty Ltd (ABN 29 006 294 837) of 29 Garden Street, Kilsyth Victoria 3137 has submitted a polymer of low concern (PLC) notification statement in support of their application for an assessment certificate for Polymer in Aqua Urethane AU240A. The notified polymer is intended to be used as a component of aqueous gravure inks. Ten to one hundred tonnes of the notified polymer will be imported per annum for each of the first five years.

ASSESSMENT OF PUBLIC, OCCUPATIONAL HEALTH AND SAFETY AND ENVIRONMENTAL EFFECTS**Hazard Assessment**

The notified polymer meets the PLC criteria and can therefore be considered to be of low hazard.

Occupational Health and Safety

There is Low Concern to occupational health and safety under the conditions of the occupational settings described

Public Health

There is Low Concern to public health when used in the manner proposed by the notifier.

Environmental Effects

The polymer is not considered to pose a risk to the environment based on its reported use pattern.

RECOMMENDATIONS*Control Measures***Occupational Health and Safety**

- No specific engineering controls, work practices or personal protective equipment are required for the safe use of the notified polymer itself, however, these should be selected on the basis of all ingredients in the formulation.

Guidance in selection of personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.

- A copy of the MSDS should be easily accessible to employees.
- If products and mixtures containing the notified polymer are classified as

hazardous to health in accordance with the NOHSC *Approved Criteria for Classifying Hazardous Substances*, workplace practices and control procedures consistent with provisions of State and Territory hazardous substances legislation must be in operation.

Environment

Disposal

- The notified polymer should be disposed of via a licensed waste contractor, while printed articles using the ink containing the polymer should be disposed of to landfill or by incineration.

Emergency procedures

- Spills/release of the notified polymer should be handled by containment, collected and stored in a labelled container until recycled, if possible, or until disposal under the state authority's guidelines.

Secondary Notification

The Director of Chemicals Notification and Assessment must be notified in writing within 28 days by the notifier, other importer or manufacturer:

Under subsection 64(1) of the Act; if

- the notified polymer is introduced in a chemical form that does not meet the PLC criteria.

The Director will then decide whether secondary notification is required.

No additional secondary notification conditions are stipulated.

26 PUBLICATION SUMMARY REPORT

**Acrylic Polymer in Viscopol 9898
Summary Report
Reference No: PLC/472**

Nuplex Industries (Australia) Pty Ltd of 49-61 Stephen Road, Botany, NSW has submitted a synthetic polymer of low concern (PLC) notification statement in support of their application for an assessment certificate for Acrylic Polymer in Viscopol 9898. The notified polymer is intended to be used as a clear coating for cementitious surfaces, particularly roof tiles. Up to 300 tonnes of the notified polymer will be imported per annum for each of the first five years.

ASSESSMENT OF PUBLIC, OCCUPATIONAL HEALTH AND SAFETY AND ENVIRONMENTAL EFFECTS**Hazard Assessment**

The notified polymer meets the PLC criteria and can therefore be considered to be of low hazard.

Occupational Health and Safety

There is Low Concern to occupational health and safety under the conditions of the occupational settings described.

Public Health

There is Negligible Concern to public health when used in the proposed manner.

Environmental Effects

The polymer is not considered to pose a risk to the environment based on its reported use pattern.

RECOMMENDATIONS*Control Measures***Occupational Health and Safety**

- No specific engineering controls, work practices or personal protective equipment are required for the safe use of the notified polymer itself, however, these should be selected on the basis of all ingredients in the formulation.

Guidance in selection of personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.

- A copy of the MSDS should be easily accessible to employees.
- If products and mixtures containing the notified polymer are classified as hazardous to health in accordance with the NOHSC *Approved Criteria for Classifying Hazardous Substances*, workplace practices and control procedures consistent with provisions of State and Territory hazardous substances legislation must be in operation.

Disposal

- The notified polymer should be disposed of in accordance with local authority regulations.

Emergency procedures

- Spills/release of the notified polymer should be contained as described in the MSDS. Do not flush down drains or sewer. Dike or contain spill with sand or earth. Clean up before the material dries. Adsorb the liquid with sand earth or other adsorbent, place in sealable container and dispose of to landfill.

Secondary Notification

The Director of Chemicals Notification and Assessment must be notified in writing within 28 days by the notifier, other importer or manufacturer:

Under subsection 64(1) of the Act; if

- the notified polymer is introduced in a chemical form that does not meet the PLC criteria.

or

Under subsection 64(2) of the Act:

- if any of the circumstances listed in the subsection arise.

The Director will then decide whether secondary notification is required.

27 PUBLICATION SUMMARY REPORT

**Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer
Summary Report
Reference No: PLC/491**

Orica Limited (ABN 24 004 145 868) of 1 Nicholson Street Melbourne VIC 3000 has submitted a synthetic polymer of low concern (PLC) notification statement in support of their application for an assessment certificate for Hydroxyethyl Acrylate/Sodium Acryloyldimethyl Taurate Copolymer. The notified polymer is intended to be used as a thickener in formulating skin and hair care preparations at maximum 3%, and will be imported from Europe as a <60% compound mixture (Simulgel NS). Up to three tonnes of the notified polymer will be imported per annum for each of the first five years.

ASSESSMENT OF PUBLIC, OCCUPATIONAL HEALTH AND SAFETY AND ENVIRONMENTAL EFFECTS**Hazard Assessment**

The notified polymer meets the PLC criteria and can therefore be considered to be of low hazard. The results of toxicity testing submitted support this conclusion.

Occupational Health and Safety

There is Low Concern to occupational health and safety under the conditions of the occupational settings described.

Public Health

There is No Significant Concern to public health when used as directed.

Environmental Effects

The polymer is not considered to pose a risk to the environment based on its reported use pattern.

RECOMMENDATIONS*Control Measures***Occupational Health and Safety**

- No specific engineering controls, work practices or personal protective equipment are required for the safe use of the notified polymer itself, however, these should be selected on the basis of all ingredients in the formulation.

Guidance in selection of personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.

- In the interest of occupational health and safety, the following guidelines and precautions should be observed for use of Simulgel NS and its end use products:

- Enclosed and automated processes at the reformulation and packaging sites, including enclosed and automatic transfer lines/pumps for loading and emptying of the mixing and transport vessels;
 - Adequate ventilation for the plant operators, including use of local exhaust ventilation on weighing and addition to the blending vessel and on QC testing.
 - Adequate training for staff in safe handling procedures;
 - Implementation of general health surveillance and monitoring programs as required.
- A copy of the MSDS should be easily accessible to employees.
 - If products and mixtures containing the notified polymer are classified as hazardous to health in accordance with the NOHSC *Approved Criteria for Classifying Hazardous Substances*, workplace practices and control procedures consistent with provisions of State and Territory hazardous substances legislation must be in operation.

Environment

- The following control measures should be implemented by the reformulation plant to minimise environmental exposure during formulation and packaging of the skin and hair care products containing the notified polymer:
 - Regular maintenance of bunding, drains, intercept pits and effluent treatment plants.

Disposal

- The notified polymer wastes should be disposed of by incineration or in landfill in accordance with State/Territory waste management regulations.
- The imported product mixture containing the notified polymer should not be disposed of to sewer.

Emergency procedures

- Spills/release of the notified polymer should be handled by containing and adsorbing with non-combustible materials, either sand or diatomaceous earth, vermiculite or saw dust, then placed in a sealable container for disposal to landfill or in accordance with local authorities. Do not allow entry to stormwater drains or waterways.

Secondary Notification

The Director of Chemicals Notification and Assessment must be notified in writing within 28 days by the notifier, other importer or manufacturer:

Under subsection 64(1) of the Act; if

- the notified polymer is introduced in a chemical form that does not meet the PLC criteria.

or

Under subsection 64(2) of the Act:

- if any of the circumstances listed in the subsection arise.

The Director will then decide whether secondary notification is required.

28 PUBLICATION SUMMARY REPORT

**5562 Carbinol Fluid
Summary Report
Reference No: PLC/503**

Dow Corning Australia Pty Ltd (ABN 36 008 444 166) of 3 Innovation Road, Macquarie University Research Park, North Ryde, NSW 2113 has submitted a synthetic polymer of low concern (PLC) notification statement in support of their application for an assessment certificate for 5562 Carbinol Fluid. The notified polymer is intended to be used as a component in a wide range of cosmetic products. Less than 10 tonnes of the notified polymer will be imported per annum for the first two years and less than 30 tonnes will be imported per annum in the remaining three years.

ASSESSMENT OF PUBLIC, OCCUPATIONAL HEALTH AND SAFETY AND ENVIRONMENTAL EFFECTS**Hazard Assessment**

The notified polymer meets the PLC criteria and can therefore be considered to be of low hazard.

Occupational Health and Safety

There is No Concern to occupational health and safety under the conditions of the occupational settings described.

Public Health

There is Low Concern to public health when used as a component of cosmetic products.

Environmental Effects

The notified polymer is not considered to pose a risk to the environment based on its reported use pattern.

RECOMMENDATIONS*Control Measures***Occupational Health and Safety**

- No specific engineering controls, work practices or personal protective equipment are required for the safe use of the notified polymer itself, however, these should be selected on the basis of all ingredients in the formulation.

Guidance in selection of personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.

- A copy of the MSDS should be easily accessible to employees.
- If products and mixtures containing the notified polymer are classified as hazardous to health in accordance with the NOHSC *Approved Criteria for Classifying Hazardous*

Substances, workplace practices and control procedures consistent with provisions of State and Territory hazardous substances legislation must be in operation.

Environment

- The following control measures should be implemented by the reformulating plant to minimise environmental exposure during reformulation of the notified polymer:
 - Regular maintenance of bunding, drains, intercept pits and effluent treatment plants.

Disposal

- The notified polymer should be disposed of to landfill.

Emergency procedures

- Spills/release of the notified polymer should be handled by adsorption with material such as sand and put into suitable container for disposal. Contaminated containers can be re-used after cleaning.

Secondary Notification

The Director of Chemicals Notification and Assessment must be notified in writing within 28 days by the notifier, other importer or manufacturer:

Under subsection 64(1) of the Act; if

- the notified polymer is introduced in a chemical form that does not meet the PLC criteria.

or

Under subsection 64(2) of the Act:

- if any of the circumstances listed in the subsection arise.

The Director will then decide whether secondary notification is required.

29 ACCESS TO FULL PUBLIC REPORT

NICNAS publishes a Full Public Report for each new chemical assessed. These reports are available for public inspection at the library of the National Occupational Health & Safety Commission at their Canberra office by appointment only. Please call the library on (02) 6279 1161 or (02) 6279 1163 to arrange to view the Full Public Report.

Reports can also be viewed and downloaded free of charge from our website at www.nicnas.gov.au. Copies of these reports may also be requested, free of charge, by contacting the Administration Section of NICNAS by phone: (02) 8577 8816 or fax: (02) 8577 8888.

30 COMMERCIAL EVALUATION CATEGORY PERMIT

The permits listed in Table 1 were issued to import or manufacture the following chemicals for commercial evaluation under section 21G of the *Industrial Chemicals (Notification and Assessment) Act 1989*.

Table 1
Commercial Evaluation Category Permits

PERMIT NUMBER	COMPANY NAME	COMPANY POSTCODE	CHEMICAL OR TRADE NAME	HAZARDOUS SUBSTANCE	QUANTITY	USE	PERIOD APPROVED
598	DIC Australia Pty Ltd	3175	Polymer in Urotuf F97-MPW-33	No	4000 kg	Surface coating	2 yrs

31 EARLY INTRODUCTION PERMITS FOR NON-HAZARDOUS INDUSTRIAL CHEMICALS

The permits listed in Table 3 were issued to import or manufacture the following chemicals prior to the issue of their respective assessment certificates under section 30A of the Act.

Table 2

Early Introduction Permits

PERMIT NUMBER	COMPANY NAME	CHEMICAL OR TRADE NAME	USE
349	International Sales & Marketing Pty Ltd	Tego MR 2057	Emulsifying agent in fuels
350	Lubrizol International Inc		
351	Nalco Australia Pty Ltd	Polymer in Ultimer 00LT053	Mining/Waste Water treatment and in agricultural applications
352	Afton Chemical Asia Pacific LLC	Polymer in EP 7690	Dispersant Component in Lubricant Additive Packages

32 NOTICE OF CHEMICALS ELIGIBLE FOR LISTING ON THE AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES FIVE YEARS AFTER ISSUING OF ASSESSMENT CERTIFICATES

Notice is given in accordance with section 14(1) of the *Industrial Chemicals (Notification and Assessment) Act 1989*, that the following chemicals have been added to the Australian Inventory of Chemical Substances.

Table 3

Chemicals Eligible for Listing on the Australian Inventory of Chemical Substances

CHEMICAL NAME	CAS NUMBER	MOLECULAR FORMULA
Benzene, ethenyl-, polymer with ethene	25068-12-6	(C ₈ H ₈ .C ₂ H ₄) _x
Hexanedioic acid, polymer with 1,4-butanediol, 1,6-hexanediol, 1,1'-methylenebis[4-isocyanatobenzene] and 2,2'-[1,4-phenylenebis(oxy)]bis[ethanol], block	122144-14-3	(C ₁₅ H ₁₀ N ₂ O ₂ .C ₁₀ H ₁₄ O ₄ .C ₆ H ₁₄ O ₂ .C ₆ H ₁₀ O ₄ .C ₄ H ₁₀ O ₂) _x
Hexanedioic acid, polymer with 1,2-ethanediol and 1,3-isobenzofurandione, benzoate	64296-27-1	(C ₈ H ₄ O ₃ .C ₆ H ₁₀ O ₄ .C ₂ H ₆ O ₂) _x .xC ₇ H ₆ O ₂
2-Propenoic acid, homopolymer, reaction products with polyethylene-polypropylene glycol 2-aminopropyl Me ether	179733-16-5	Unspecified
Ammonium 2-mercaptopropionate	13419-67-5	C ₃ H ₆ O ₂ S.H ₃ N
Beta-Alanine, N-[4-[(2-cyano-4-nitrophenyl)azo]phenyl]-N-methyl-, 2-(1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)ethyl ester	170222-39-6	C ₂₇ H ₂₂ N ₆ O ₆
1-Propanol, 3-bromo-2,2-bis(bromomethyl)-, phosphate (3:1)	19186-97-1	C ₁₅ H ₂₄ Br ₉ O ₄ P
2-Propenenitrile, polymer with 1,3-butadiene, ethenylbenzene and 1-phenyl-1H-pyrrole-2,5-dione	88077-74-1	(C ₁₀ H ₇ NO ₂ .C ₈ H ₈ .C ₄ H ₆ .C ₃ H ₃ N) _x
1-propanamine, 3-(triethoxysilyl)-, reaction products with trimethoxy [3-(oxyranylethoxy) propyl] silane and methyltrimethoxysilane	474530-85-3	Unspecified
1,3-Dioxane, 5-methyl-2-(2-methylpropyl)-, cis-	166301-22-0	C ₉ H ₁₈ O ₂
2-Propenoic acid, 2-methyl-, 2-(diethylamino)ethyl ester, polymer with ethenylbenzene, 2-ethylhexyl 2-methyl-2-propenoate, 2-ethylhexyl 2-propenoate, 2-	775303-23-6	(C ₁₂ H ₂₂ O ₂ .C ₁₁ H ₂₀ O ₂ .C ₁₀ H ₁₉ NO ₂ .C ₈ H ₈ .C ₅ H ₈ O ₃ .C ₅ H ₈ O ₂) _x

hydroxyethyl 2-propenoate and methyl 2-methyl-2-propenoate		
2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene and 2-methyl-2-propenamide	28650-82-0	$(C_8H_8.C_5H_8O_2.C_4H_7NO)_x$
Linseed oil, polymer with Bu acrylate, isophthalic acid, Me methacrylate, neopentyl glycol, pentaerythritol and styrene	744254-43-1	Unspecified

33 NOTICE OF CHEMICALS ELIGIBLE FOR IMMEDIATE LISTING ON THE AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES AFTER ISSUING OF ASSESSMENT CERTIFICATES

Notice is given in accordance with section 13B of the *Industrial Chemicals (Notification and Assessment) Act 1989*, that the following chemicals have been added to the Australian Inventory of Chemical Substances.

Table 4

Chemicals Eligible for Immediate Listing on the Australian Inventory of Chemical Substances

CHEMICAL NAME	CAS NUMBER	MOLECULAR FORMULA
Siloxanes and Silicones, di-Me, 3-(2-hydroxyethoxy)propyl group-terminated	222416-17-3	Unspecified
Aluminate(1-), bis[3,5-bis(1,1-dimethylethyl)-2-(hydroxy- kappa-O)benzoato(2-)-kappa-O]-, hydrogen, (T-4)	118422-20-1	C ₃₀ H ₄₀ AlO ₆ .H
Benzenesulfonic acid, 4-[[1-[(2-methoxyphenyl)amino]carbonyl]-2-oxopropyl]azo]-3-nitro-, monosodium salt	216439-38-2	C ₁₇ H ₁₆ N ₄ O ₈ S.Na
2-propenoic acid, 2-hydroxyethyl ester, polymer with 2-methyl-2-[(1-oxo-2-propenyl)amino]-1-propanesulfonic acid monosodium salt	111286-86-3	(C ₇ H ₁₃ NO ₄ S.C ₅ H ₈ O ₃ . Na) _x