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CHEMICAL



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NICNAS

The *Industrial Chemicals (Notification and Assessment) Act 1989* (the Act) commenced on 17 July 1990. As required by Section 5 of the Act, a Chemical Gazette is published on the first Tuesday in any month or on any days prescribed by the regulations.

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1 ADDENDUM-SPECIAL GAZETTE PUBLISHED 16 AUGUST 2004-LRCC

There was an error on page 7 of the above Gazette. Correct text is included below:

Non-cosmetic chemical (amended)

The volume restriction for the exemption of non-cosmetic chemicals which pose no unreasonable risk to occupational health, public health or environment, has increased from 10 to 100kg/annum [subpara. 21(4)(b)(ii)]. Advice to NICNAS prior to introduction is optional and introducers of chemicals in this category wishing to advise NICNAS should fill out Form 21-4a and return it to NICNAS.

There is a new requirement for the introducer to keep records relating to occupational health and safety, public health matters and the environmental effects of the chemical for five years. Annual reporting requirements for this exemption category commence for the registration year 1 September 2004, with the first report required by 28 September 2005. [s.21AA of the Act].

Cosmetic chemical <10kg (amended)

Introducers of cosmetic chemicals which pose no unreasonable risk to occupational health, public health or environment, in quantities of less than 10kg/annum, are no longer required to notify NICNAS prior to introduction.

The criteria for the cosmetic chemical and the five-year record keeping requirement remain unchanged. Annual reporting requirements for this exemption category commence for the registration year 1 September 2004, with the first report required by 28 September 2005. [s.21AA of the Act].

Cosmetic chemical >10kg but <100kg (amended)

The volume restriction for the exemption of cosmetic chemicals which pose no unreasonable risk to occupational health, public health or environment, has increased from 10 to 100kg/annum [subpara. 21(4)(b)(i)]. Introducers of the chemical must notify NICNAS of the introduction in writing (Form 15) and provide the Material Safety Data Sheet (MSDS) relevant to the chemical or product containing the chemical and a copy of the label attached to the packaging of the chemical or product containing the chemical.

The criteria for the cosmetic chemical and the five-year record keeping requirement remain unchanged. Annual reporting requirements for this exemption category commence for the registration year 1 September 2004, with the first report required by 28 September 2005. [s.21AA of the Act].

2 INFORMATION TO IMPORTERS OF INDUSTRIAL CHEMICALS

NICNAS has received a number of enquiries from importers and Customs Brokers about relevant tariff classifications to goods containing industrial chemicals. The Table below shows a typical list of tariff classifications that may fall within the scope of the NICNAS Registration requirements. Importers should note that they should not limit themselves to these import classifications as some industrial chemicals are imported under chapters not listed below:

For more information on these chapters see the Australian Customs Service website at <http://www.customs.gov.au/site/page.cfm?u=4273>.

Chapter	Reference Number	Description
15	1505, 1518 to 1522 inclusive	Animal or vegetable fats and oils and their cleavage products; prepared edible fats; animal or vegetable waxes
25	All	Salt; sulphur; earths and stone; plastering materials; lime and cement
26	All	Ores, slag and ash
27	All except 2701, 2702, 2703, 2709	Mineral fuels, mineral oils and products of their distillation; bituminous substances; mineral waxes
28	All except 2844, 2845	Inorganic chemicals; organic or inorganic compounds of precious metals, of rare-earth metals, of radioactive elements or of isotopes
29	All except 2935, 2936, 2937, 2940, 2941	Organic chemicals
32	All	Tanning or dyeing extracts; tannins and their derivatives; dyes, pigments and other colouring matter; paints and varnishes; putty and other mastics; inks
33	All	Essential oils and resinoids; perfumery, cosmetic or toilet preparations
34	All except 3406	Soap, organic surface-active agents, washing preparations, lubricating preparations, artificial waxes, prepared waxes, polishing or scouring preparations, candles and similar articles, modelling pastes, "dental waxes" and dental preparations with a basis of plaster
35	All	Albuminoidal substances; modified starches; glues; enzymes

36	All except 3603	Explosives; pyrotechnic products; matches; pyrophoric alloys; certain combustible preparations
37	3707 only	Photographic or cinematographic goods 3707- Chemical preparations for photographic uses (other than varnishes, glues, adhesives and similar preparations), unmixed products for photographic uses, put in measured portions or put up for retail sale in a form ready for use
38	All	Miscellaneous chemical products
39	3901 to 3914 inclusive	Plastics and articles thereof
40	4001 and 4002 only	Rubber and articles thereof
47	All except 4707	Pulp of wood or of other fibrous cellulosic material; recovered (waste and scrap) paper or paperboard
96	9608, 9612, 9613 only	Miscellaneous manufactured articles

3 CHANGES TO THE NICNAS HANDBOOK FOR NOTIFIERS

The *Handbook for Notifiers* has been updated on the NICNAS website to reflect the new arrangements following the introduction of the Industrial Chemicals (Notification and Assessment) Amendment (Low Regulatory Concern Chemicals) Act 2004 (LRCC Amendment Act).

The Handbook is a guide to importers, manufacturers and exporters of industrial chemicals in Australia. It outlines their obligations under the *Industrial Chemicals (Notification and Assessment) Act 1989*, as well as the assessment and notification procedures and other information relevant to industrial chemicals regulation.

For further enquiries about the *Handbook for Notifiers* contact Hana Hamdan (Team Leader, Innovation and Compliance) on 02 8577 8855 or email to comply@nicnas.gov.au.

4 POLYBROMINATED FLAME RETARDANTS - CALL FOR INFORMATION

The Director of the National Industrial Chemicals Notification and Assessment Scheme (NICNAS) is seeking information under section 48 of the *Industrial Chemicals (Notification and Assessment) Act 1989* (the Act) on polybrominated flame retardants (PBFRs).

The information sought on these chemicals is:

- Quantities imported and/or manufactured;
- Products imported containing the chemical and quantities of chemical in the products;
- Uses of the chemical or the products containing the chemical; and
- Alternatives or substitutes currently being used

The notice is directed to all persons who have manufactured or imported one or more of the PBFRs or products containing PBFRs in the last 12 months. Any other persons with information on these chemicals including users, past importers or manufacturers are also encouraged to provide information on the uses of and alternatives available for these chemicals to the Director.

The data provided will be used to update the information currently held by NICNAS and determine further regulatory activity.

While the table below may not cover all the PBFRs in use in Australia it can be used as a guide.

Polybrominated Flame Retardants	CAS No
1,2-bis(2,4,6-tribromophenoxy)ethane	37853-59-1
1,4-Bis(pentabromophenoxy)tetrabromobenzene	58965-66-5
2-propenoic acid (pentabromophenyl)methyl ester, homopolymer	59447-57-3
3,4,5,6-Tetrabromophthalic anhydride, ethylene glycol, propylene oxide reaction products	77098-07-8 / 20566-35-2
Bis(2,3-dibromopropyl) phosphate	5412-25-9
Decabromodiphenyl ether	1163-19-5
Disodium tetrabromophthalate	25357-79-3
Hexabromocyclododecane	25637-99-4
Hexabromodiphenyl ether	36483-60-0
Nonabromodiphenyl ether	63936-56-1

Octabromodiphenyl ether	32536-52-0
Pentabromodiphenyl ether	32534-81-9
Phosgene-tetrabromobisphenol A polymer bis(2,4,6-tribromophenyl) ester	71342-77-3
Phosphoric acid, mixed 3-bromo-2,2-dimethyl propyl and 2-chloroethyl esters	125997-20-8
Polymer of tetrabromobisphenol A, phosgene, phenol	94334-64-2
Polystyrene, brominated	88497-56-7
Tetrabromobisphenol A	79-94-7
Tetrabromobisphenol A bis(2,3-dibromopropyl) ether	21850-44-2
Tetrabromobisphenol A, 2,2-bis[4-(2,3-epoxypropyloxy)dibromophenyl]propane polymer	68928-70-1
Tetrabromodiphenyl ether	40088-47-9
Tribromodiphenyl ether	49690-94-0
Tris(tribromoneopentyl) phosphate	19186-97-1

Responses on the chemicals are required on the attached form. A separate form should be completed for each chemical. **The due date for responses is 17 November 2004.**

The penalty for non-compliance with this notice is up to \$33,000. In accordance with Section 50 of the Act, the information may be accompanied by an application that some or all of the information provided should be treated as 'exempt information'. Application forms may be obtained from Ms Virginia Parish on 02 8577 8893 or via the NICNAS website at <http://www.nicnas.gov.au/forms/files/form3.doc>.

Polybrominated Flame Retardants (PBFRs) have attracted much interest internationally and nationally given the human health and environmental concerns of some chemicals within this group. NICNAS conducted a preliminary assessment on polybrominated flame retardants as a group and published a report (Priority Existing Chemical Assessment Report No. 20) in 2001. The report can be accessed at <http://www.nicnas.gov.au/publications/CAR/PEC/PEC20/PEC20index.asp>. Recent information on some of these chemicals has led to regulatory activities overseas and considerable interest nationally.

Polybrominated flame retardants have widespread use in numerous household and industrial items such as printed circuit boards, polystyrene and other plastics. This large number of dispersive uses provides many ways for PBFRs to enter the environment. Some polybrominated flame retardants are persistent, lipophilic and bioaccumulative, therefore, adversely impact the environment. Some PBFRs cause carcinogenicity, endocrine disruption

and reproductive effects. Hence, current Australian use information is required to put the hazard data on PBFs in perspective.

Further information can be obtained from Dr Janith Wickramaratna (Tel: 02 8577 8846; email: janith.wickramaratna@nicnas.gov.au).

Completed forms should be sent to Ms Virginia Parish
Existing Chemicals
NICNAS
GPO Box 58
Sydney NSW 2001

**RESPONSE TO SECTION 48 NOTICE – POLYBROMINATED FLAME
RETARDANTS**

Please use a separate form for each chemical.

Company Name: _____

Address: _____

Contact name: _____

Phone Number: _____ Fax Number: _____

Details of Chemical

Chemical Name:

Product or Trade Name:

Chemical Abstract Services Number (CAS No.):

1. Do you manufacture the above chemical (Please circle) Y/N

If yes, please provide an estimate of the quantity you manufacture (tonnes/year)

Tonnes/year: _____

2. Do you import the chemical? Y/N

If yes, please provide an estimate of the quantities of chemical you import (tonnes/year)

Tonnes/year: _____

3. Do you import products (mixtures) containing this chemical? Y/N

Please indicate the product(s) you **import** containing the chemical and the total tonnage of chemical in each product:

Name of Product (Description of Product)	Tonnes chemical/year

4. What are the uses of the chemical/products?

5. Do you manufacture or formulate products containing this chemical? Y/N

Please indicate the product(s) you **manufacture or formulate** containing the chemical and the total tonnage of chemical in each product:

Name of Product (Description of Product)	Tonnes chemical/year
---	----------------------

6. Do you use this chemical other than for manufacturing products (eg. manufacturing articles)? Y/N

If yes, what types of articles are they used in?

7. What are the uses of the products manufactured/formulated by you?

8. Is this chemical available to members of the public? Y/N

9. Do you manufacture/import any chemicals that are used as an alternative/substitute for PBFs? Y/N

If yes please provide

Name of Chemical

Quantities

Information collected by NICNAS may be provided to State, Territory or Commonwealth regulatory agencies for the purposes of monitoring compliance under relevant legislation. All information collected is treated in accordance with strict confidentiality guidelines and in compliance with the *Privacy Act 1988*.

Further information can be obtained from Dr Janith Wickramaratna (Tel: 02 8577 8846; email: janith.wickramaratna@nicnas.gov.au).

Is your company a small business with less than 20 employees? YES NO

If yes, please provide an estimate of the time taken to complete this form:

hrs mins

Thank-you. Please send the completed form to:

Ms Virginia Parish
Existing Chemicals
NICNAS
GPO Box 58
Sydney NSW 2001

5 PUBLICATION SUMMARY REPORT

Poly(oxy-1,2-ethanediyl), alpha, alpha', -[1,4-dimethyl-1,4-bis (3-methylbutyl)-2-butyne-1,4-diyl]bis[omega-hydroxy- Summary Report Reference No: STD/1067

Swift and Company Ltd (ABN 44 000 005 578), of Level 1, 372 Wellington Rd, Mulgrave, Victoria, 3170 and 3M Australia Pty Ltd (ABN 90 000 100 096), of 2-74 Dunheved Circuit, St Marys, 2760 have submitted a standard notification statement in support of their application for an assessment certificate for Poly(oxy-1,2-ethanediyl), α , α' , -[1,4-dimethyl-1,4-bis (3-methylbutyl)-2-butyne-1,4-diyl]bis[ω -hydroxy-. The notified polymer is intended to be used as a non-ionic wetting agent for high performance waterborne applications such as coatings, inks and adhesives. One 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

Based on the assumption that analogue data are acceptable and indicative of toxicity of the notified polymer, the notified polymer is classified as hazardous under the NOHSC *Approved Criteria for Classifying Hazardous Substances*. The classification and labelling details are:

R41 Risk of Serious Damage to Eyes

Occupational Health and Safety

Use as a clear coat component

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

Use as fountain solution concentrate component and other potential uses

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

Public Health

Use as a clear coat component and Use as fountain solution concentrate component

There is Negligible Concern to public health based on its reported use pattern.

Other potential uses

There is No Significant Concern to public health based on its reported use pattern.

Environmental Effects

The chemical is not considered to pose a risk to the environment based on its PEC/PNEC ratio and reported use pattern.

RECOMMENDATIONS

Regulatory Controls

Hazard Classification and Labelling

- Use the following risk phrases for products/mixtures containing the notified polymer:
 - $\geq 10\%$: R41
 - $5\% \leq \text{concentration} \leq 10\%$: R36

Control Measures

Occupational Health and Safety

- Employers should implement the following safe work practices to minimise occupational exposure during handling of the notified polymer as introduced.
 - Avoid contact with eyes
 - Avoid splashes and spills
- Employers should ensure that the following personal protective equipment is used by workers to minimise occupational exposure to the notified polymer as introduced:
 - Splash-proof goggles, chemical resistant industrial clothing and impermeable 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 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 the notified polymer:
 - Do not allow material or contaminated packaging to enter drains, sewers or water courses.

Disposal

- The notified polymer should be disposed of in a landfill in compliance with federal, state and local authorities. Waste product may also be incinerated in an approved combustion system. Careful measures should be undertaken to avoid release of the notified polymer to the sewer system and watercourses.

Emergency procedures

- Spills/release of the notified polymer should be handled by stopping the leak/spill if possible, reducing vapour spreading with a water spray and constructing a dike to prevent water flow. If recovery is not feasible admix with dry soil, sand or non-

reactive adsorbent and place in an appropriate chemical waste container. Transfer to containers by suction, preparatory for later disposal. Flush area with water spray. For large spills, recover spilled material with a vacuum truck.

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 included in products at a percentage $\geq 5\%$

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.

6 PUBLICATION SUMMARY REPORT

Promidium IS

Summary Report Reference No: STD/1099

Uniqema Australia Pty Ltd (ABN 00018084) of Level 37, 101 Collins St Melbourne VIC 3000 and Symex Holding Pty 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.

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:

- ≥ 20%: R36 Irritating to eyes
- ≥ 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.

7 PUBLICATION SUMMARY REPORT

W-663
Summary Report
Reference No: STD/1112

Brother International (Aust.) Pty Ltd (ACN 17 001 393 835) of 7 Khartoum Road North Ryde NSW 2113 has submitted a standard notification statement in support of their application for an assessment certificate for W-663. The notified chemical is intended to be used as an additive in toner used for printing. The toner containing the notified chemical will be imported in toner cartridges for electrophotocopying machines or electrophotographic printers. Cartridges are replaced by removal of sealing tape and insertion into the machine or printer. Less than three tonnes of the notified chemical will be imported per annum for each of the first five years.

ASSESSMENT OF PUBLIC, OCCUPATIONAL HEALTH AND SAFETY AND ENVIRONMENTAL EFFECTS

Hazard Assessment

Based on the available data, the notified chemical is not classified as a hazardous substance in accordance with the NOHSC *Approved Criteria for Classifying Hazardous Substances*.

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

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 special precautions are required for the notified chemical when used at low quantities in a toner in cartridges in electrophotocopying machines or electrophotographic printers. However, in the interests of good occupational health and safety, the following guidelines and precautions should be observed for use of toners containing the notified chemical:

- Avoid contact with skin and eyes.
- Avoid breathing dust

- Avoid generation of dust. Photocopiers and printers should be located in well ventilated areas. The NOHSC Exposure Standard of 10 mg/m³ TWA for nuisance dust should be maintained in the workplace.
- Service personnel should wear cotton or disposable gloves when replenishing toner and servicing copying machines and printers.

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.

Environment

Disposal

- Empty toner cartridges containing the notified chemical should be disposed of to landfill.
- Do not dispose the notified chemical into sewers or water bodies.

Emergency procedures

- Spills/release of the notified chemical should be handled by sweeping up and discarding in to a waste container.

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.

8 PUBLICATION SUMMARY REPORT

Sodium PEG-7 Olive Oil Carboxylate Summary Report Reference No: LTD/1129

Unilever Australia Limited (ABN 66 004 050 828) of 219 North Rocks Road North Rocks NSW 2151 has submitted a limited notification statement in support of their application for an assessment certificate for the chemical “sodium PEG-7 olive oil carboxylate”. The notified chemical is intended for use as an anionic surfactant at 1.2% in a facial toner product. About 300 kg of the notified chemical will be imported per annum for each of the first five years, initially in final consumer packages and then as a 35% aqueous solution (Olivem 400) for local formulation.

ASSESSMENT OF PUBLIC, OCCUPATIONAL HEALTH AND SAFETY AND ENVIRONMENTAL EFFECTS

Hazard Assessment

Based on the available data there is insufficient information to substantiate that the notified chemical is not a hazardous substance. However, Olivem 400 (35% notified chemical) is not likely to be classified as hazardous under the NOHSC *Approved Criteria for Classifying Hazardous Substances*.

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 in the proposed manner.

Environmental Effects

On the basis of the widespread and low use level, the chemical is not considered to pose a risk to the environment at the proposed import volume.

RECOMMENDATIONS

Control Measures

Occupational Health and Safety

- Employers should implement the following engineering controls to minimise occupational exposure to the notified chemical as introduced in a 35% solution:
 - Enclosed and automated processes at the blending and packaging sites;
 - Adequate ventilation for the plant operators and local exhaust ventilation for quality control personnel.
- Employers should implement the following safe work practices to minimise occupational exposure during handling of the notified chemical as introduced in the lubricant additive package:

- Adequate training for staff in handling surfactant components;
 - Implementation of general health surveillance and monitoring programs as required.
- Employers should ensure that the following personal protective equipment is used by workers to minimise occupational exposure to the notified chemical as introduced in the lubricant additive package:
 - Industrial standard protective clothing and gloves;
 - Safety glasses with side-shields/chemical goggles;
 - Vapour respirators if required.

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.

Disposal

- The notified chemical should be disposed of by recovering the product if possible and disposing to landfill.

Emergency procedures

- Spills/release of the notified chemical should be prevented from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers. Small spills may be diluted with water, whilst larger spills should be adsorbed with inert material (sand or vermiculate) and disposed of in accordance with local, state and federal 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 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.

9 PUBLICATION SUMMARY REPORT

Polymer in Pliogrip Adhesives Summary Report Reference No: LTD/1135

Ashland Pacific Pty Ltd (ACN 000 075 641) of Sir Thomas Mitchell Road, Chester Hill NSW 2162 has submitted a limited notification statement in support of their application for an assessment certificate for Polymer in Pliogrip Adhesives. The notified polymer is intended to be used as a component of an adhesive for heavy vehicles. The adhesive will be imported in cartridges containing two variants of the notified polymer, isocyanate-rich and polyol-rich, which are mixed before being extruded onto the substrate. Less than 10 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

Based on the available data the notified polymer is not classified as hazardous under the NOHSC *Approved Criteria for Classifying Hazardous Substances*. However, the isocyanate-rich component of the adhesive is classified as hazardous. The classification and labelling details are:

R20 - Harmful by inhalation,
R36/37/38 - Irritating to eyes, respiratory system and skin and
R42/43 - May cause sensitisation by inhalation and skin contact.

Occupational Health and Safety

There is Moderate 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 indicated.

Environmental Effects

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

RECOMMENDATIONS

The following recommendations relate to the isocyanate-rich notified polymer containing approximately 50% excess isocyanate. Although the adhesive contains the notified polymer at a low level (7%), in the absence of certain knowledge of likely atmospheric concentrations of isocyanate in the workplace and in view of the serious consequences of isocyanate-induced respiratory sensitisation, a conservative approach to risk management should be taken.

Control Measures

Occupational Health and Safety

- Employers should implement the following engineering controls to minimise occupational exposure to the notified polymer in Pliogrip adhesives:
 - Good general ventilation and local exhaust ventilation where practicable.
- Employers should ensure that the following personal protective equipment is used by workers to minimise occupational exposure to the notified polymer in Pliogrip adhesives:
 - Supplied air respiratory protection and protective clothing, gloves and footwear impervious to isocyanate-containing compounds. The open points at the interface between different forms of protective clothing should be sealed.

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

- Atmospheric or biological monitoring should be conducted by qualified professionals to gauge potential workplace atmospheric concentrations of isocyanate during use of the notified polymer.
- 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.
- Preplacement and periodic medical surveillance programs should be conducted for all workers potentially exposed to isocyanates. Emphasis should be placed on pre-existing respiratory and/or allergic conditions and lung function tests.

Environment

Disposal

- The notified chemical should be disposed of by landfill or incineration

Emergency procedures

- Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sewer system.

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.

10 PUBLICATION SUMMARY REPORT

Polymer in Disperbyk-2001 Summary Report Reference No: LTD/1152

Nuplex Industries (Aust) Pty Ltd (ABN: 25 000 045 572) of 49-61 Stephen Road, Botany NSW 2019 and PPG Industries Australia Pty Ltd (ABN: 82 055 500 939) of McNaughton Road, Clayton, VIC 3168 have submitted a limited notification statement in support of their application for an assessment certificate for Polymer in Disperbyk-2001. The notified polymer is intended to be used as a wetting and dispersing additive for solvent based coatings and pigment concentrates. It will be used at below 6% in paint formulations, mostly for automotive use. Up to five 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

Based on the available data, the notified polymer is not classified as hazardous under the NOHSC *Approved Criteria for Classifying Hazardous Substances*.

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 in the notification.

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

- Employers should implement the following engineering controls to minimise occupational exposure to the notified polymer:
 - Enclosed spray paint application system for industrial use.
- Employers should ensure that the following personal protective equipment is used by workers to minimise occupational exposure to the notified chemical as introduced and as diluted for use in the products:
 - Protective gloves,
 - safety glasses or goggles,
 - half-facepiece respirator and

- industrial clothing

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 the notified polymer:
 - Do not pour leftover paint or cleaning solvent down the drain.

Disposal

- Wastes generated during industrial application should be disposed of through a licensed waste contractor.
- 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.

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 Section 64(2) of the Act:

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

If the use pattern changes leading to a significant increase in the potential for aquatic exposure, then ecotoxicity data for fish, daphnia and algae should to be submitted for assessment.

The Director will then decide whether secondary notification is required.

11 PUBLICATION SUMMARY REPORT

B-21825
Summary Report
Reference No: LTD/1154

Kodak Australasia Pty Ltd (ABN 49 004 057 621) of 173 Elizabeth Street, Coburg, VIC 3058 has submitted a limited notification statement in support of their application for an assessment certificate for B-21825. The notified chemical is intended to be used as a component of photographic paper. The chemical will be imported and used in the manufacture of photographic paper at the notifier's plant. Less than one tonne of the notified chemical will be imported per annum for each of the first five years.

ASSESSMENT OF PUBLIC, OCCUPATIONAL HEALTH AND SAFETY AND ENVIRONMENTAL EFFECTS

Hazard Assessment

Based on the available data the notified chemical is not classified as hazardous under the NOHSC *Approved Criteria for Classifying Hazardous Substances*.

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

- Employers should implement the following engineering controls to minimise occupational exposure to the notified chemical:
 - For formulation, local exhaust ventilation should be used when handling the notified chemical in powder form.

- Employers should implement the following safe work practices to minimise occupational exposure during handling of the notified chemical as introduced and in the emulsion formulation and application processes:
 - In handling the notified chemical, avoid spills and dust generation.
 - In handling the notified chemical, minimise the potential for ingestion through good personal hygiene.

- In handling the emulsion formulation, avoid spills, splashes or aerosol generation that would increase exposure.
- Employers should ensure that the following personal protective equipment is used by workers to minimise occupational exposure to the notified chemical as introduced and in the emulsion formulation and application processes:
 - Respiratory protection if exposure to dust is likely.
 - Gloves
 - Protective clothing
 - Safety eye protection

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.

Disposal

- Dispose of wastes containing the notified chemical according to local jurisdiction waste disposal regulations. Residual chemical retained in emptied containers and in dust collection filters should be treated as prescribed waste and disposed of to secure landfill. Follow label warnings even after container is emptied.

Emergency procedures

- Spills/release of the notified chemical should be collected by shovelling into suitable containers for disposal. Avoid dust formation. Clean surface thoroughly to remove residual contamination.

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 importation volume exceeds one tonne per annum notified chemical.

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.

12 PUBLICATION SUMMARY REPORT

Dow Corning 7-6030 Quaternary Ammonium Functional Silicone Summary Report Reference No: LTD/1156

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 limited notification statement in support of their application for an assessment certificate for Dow Corning 7-6030 Quaternary Ammonium Functional Silicone. The notified polymer is intended to be used as a component of hair care products. The notified polymer will be imported as a polymer concentrate at >90% and will be stored at the notifier's warehouse prior to distribution to local hair care product formulators. Alternatively, the notified polymer will be imported as formulated hair care products containing <1% notified polymer. Up to 10 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

Based on the available data, the notified polymer is classified as a hazardous substance in accordance with the NOHSC *Approved Criteria for Classifying Hazardous Substances*. The classification and labelling details are:

R36/38 – Irritating to eyes and skin; and

R43 – May cause sensitisation by skin contact.

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 a component of hair care products.

Environmental Effects

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

RECOMMENDATIONS

Regulatory Controls

Hazard Classification and Labelling

- The NOHSC Chemicals Standards Sub-committee should consider the following health hazard classification for the notified polymer:
 - R36/38 – Irritating to eyes and skin; and
 - R43 – May cause sensitisation by skin contact.
- Use the following risk phrases for products/mixtures containing the notified polymer:

- $\geq 20\%$: R36/38 - Irritating to eyes and skin.
- $\geq 1\%$: R43 - May cause sensitisation by skin contact.

Control Measures

Occupational Health and Safety

- Employers should implement the following engineering controls to minimise occupational exposure to the notified polymer as introduced:
 - Local exhaust ventilation during transfer and mixing operations
- Employers should implement the following safe work practices to minimise occupational exposure during handling of the notified polymer as introduced:
 - During transfer operations and cleaning equipment, avoid spills and splashing.
- Employers should ensure that the following personal protective equipment is used by workers to minimise occupational exposure to the notified polymer as introduced:
 - Chemical resistant gloves, safety glasses, protective clothing or equivalent when handling the notified polymer

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

- Dispose of wastes containing the notified polymer in accordance with local jurisdiction waste management regulations.
- Do not dispose of the notified polymer to drains or natural waterways.
- Spilled notified polymer (including saturated absorbent or cleaning material) may be hazardous as spontaneous heating may occur. Such wastes should be disposed of to landfill or incinerated.
- Emptied finished product containers with residues of the notified chemical should be cleaned and recycled or sent to landfill for disposal.
- Small quantities of waste/spilled formulation containing the notified chemical should be disposed of to landfill or sewer.

Emergency procedures

- Spills/release of the notified polymer should be prevented from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers. Inform local authorities if this cannot be prevented.

- Clean up spilled quantities of notified polymer by pumping into labelled, sealable containers. Clean up remaining materials from spill with suitable absorbent. Final clean using steam, solvents or detergents and collect washwaters for treatment and appropriate disposal

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.

13 PUBLICATION SUMMARY REPORT

Polymer in Dow Corning 9040 Silicone Elastomer Blend Summary Report Reference No: EX/58

An Assessment Certificate for the notified polymer known by the name Polymer in DOW CORNING 9040 Silicone Elastomer Blend was granted to Dow Corning Australia Pty Ltd (ABN 91 008 396 245) of Macquarie University Research Park; 3 Innovation Rd, North Ryde NSW 2113.

The Assessment Report for Polymer in DOW CORNING 9040 Silicone Elastomer Blend is identified by the sequence number PLC/189 (Synthetic Polymer of Low Concern Notification).

Since granting of the abovementioned Assessment Certificate, Unilever Australia Ltd (ABN 66 004 050 828) of 219 North Rocks Road North Rocks NSW 2151 has submitted a notification statement in support of their application for an extension of the original Assessment Certificate for Polymer in DOW CORNING 9040 Silicone Elastomer Blend. Dow Corning Australia Pty Ltd. has agreed to this extension.

Information submitted by Unilever Australia Pty Ltd pertains to the introduction of the notified polymer for use in as a viscosity increasing and suspending agent in moisturizing lotions. Introduction volumes will be up to 400 kg per year, imported as the finished product. The concentration of the chemical in final products is 7.8%.

ASSESSMENT OF PUBLIC, OCCUPATIONAL HEALTH AND SAFETY AND ENVIRONMENTAL EFFECTS

Hazard Assessment

The notified polymer is of very low acute oral toxicity and low dermal toxicity. It is not a skin irritant or a skin sensitiser, and a very slight ocular irritant. No evidence of mutagenicity was observed in a bacterial assay. The notified polymer is not classified as a hazardous substance in accordance with the NOHSC *Approved Criteria for Classifying Hazardous Substances*

Occupational Health and Safety

There is little potential for significant occupational exposure to the notified polymer in the transport and storage of the polymer solution or the personal care products containing this polymer, or during retail sale of the products. There will be exposure during production of the personal care products.

During the reformulation and packaging processes, the main exposure route for the notified polymer will be dermal. The polymer solution and final products will be viscous, and ready formation of aerosols is not expected. The polymer is not expected to be hazardous by dermal exposure as the high molecular weight will preclude absorption through the skin. The engineering controls and personal protective equipment specified in the notification (local exhaust ventilation and protective eyewear) will provide protection against the notified polymer. No significant OHS risks are expected due to the low toxicity of the notified polymer.

Public Health

An analogous chemical to the notified polymer showed some evidence of effects on reproduction in rats, following subcutaneous administration (Kennedy, 1976). The use of the notified polymer at 0.1%-1.7% in personal care products means that a small amount will be applied to the skin for each use. Likely skin application sites, such as underarms, possess large numbers of sweat glands, and consequently there is potential for increased dermal absorption at these sites. This is not of concern in this case, as the notified polymer is of high molecular weight (NAMW > 15500) and is unlikely to penetrate biological membranes, suggesting limited systemic absorption following normal use.

The low concentration and limited systemic absorption would eliminate any potential toxic hazard from normal use of the polymer in personal care products. There will be minimal public exposure during transport, storage and formulation into personal care products.

Based on the above information, it is considered that Polymer in DOW CORNING 9040 Silicone Elastomer Blend is unlikely to pose a significant hazard to public health when used in the proposed manner.

Environmental Effects

Almost all of the new polymer is expected to be released to the environment as a consequence of its use in personal care products. Most is expected to be released to the sewer, although some may be placed directly into landfill with domestic garbage. The polymer is not biodegradable and that portion released to the sewer (estimated as up to 37.5 tonnes per annum) will become associated with sewer sludge due to its hydrophobic nature. Although all the polymer is expected to be released, the use pattern is such that the release will be diffuse and at relatively low levels. For example, if all the annual import of 50 tonnes were to be released to the sewer system, assuming that each individual in Australia produced 150 L of sewage each day, and taking the national population as 19,000,000 the Predicted Environmental Concentration (PEC) in the sewage is estimated as 48 µg/L. However, as indicated previously this will become associated with sludge, and this will ultimately also be placed into landfill, although some may be incinerated. It is also expected that around 12.5 tonnes of polymer may be directly released to the soil compartment through disposal of partly emptied containers in domestic garbage.

Silicone polymers are stable under moist conditions, but it is expected that prolonged residence in dry landfills would eventually degrade the polymer to landfill gases and silica, while incineration would destroy the material, also with production of silica.

No ecotoxicity data were supplied, but silicone polymers are not known to be toxic to aquatic organisms, and in any case the low rate of release and expected association of the polymer with sediments would mitigate any toxic effects. The polymer is not expected to bioaccumulate.

RECOMMENDATIONS

To minimise occupational exposure to Polymer in DOW CORNING 9040 Silicone Elastomer Blend, the following guidelines and precautions should be observed:

- Safety eyewear should be used during occupational use of the products containing the notified polymer;
- Spillage of the notified chemical should be avoided. Spillages should be cleaned up promptly with absorbents which should then be put into containers for disposal;
- Good personal hygiene should be practised to minimise the potential for ingestion;
- A copy of the MSDS should be easily accessible to employees.
- If products containing the notified chemical are hazardous to health in accordance with the NOHSC *Approved Criteria for Classifying Hazardous Substances*, workplace practices and control procedures consistent with State and territory hazardous substances regulations must be in operation.

Guidance in selection of goggles may be obtained from Australian Standard (AS) 1336 (Standards Australia, 1994) and Australian/New Zealand Standard (AS/NZS) 1337 (Standards Australia/Standards New Zealand, 1992).

Secondary Notification

Under the Act, the Director of Chemical Notification and Assessment must be informed if the polymer characteristics cease to satisfy the criteria under which it has been accepted as a Synthetic Polymer of Low Concern, and secondary notification may be required under subsection 64(1). The Director must be informed if any of the circumstances stipulated under subsection 64(2) of the Act arise, and secondary notification of the notified polymer may be required. No other specific conditions are prescribed.

14 PUBLICATION SUMMARY REPORT

Polyester Alkyd 25 Summary Report Reference No: PLC/324

Nuplex Industries (Aust) Pty Ltd (ACN 15 902 254 524) of 49-61 Stephen Road Botany NSW 2019 has submitted a synthetic polymer of low concern (PLC) notification statement in support of their application for an assessment certificate for Polyester Alkyd 25. The notified polymer will be blended with styrene and performance-enhancing additives to produce a resin binder suitable for use in fibre reinforced composite materials. 100 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 based on the use pattern.

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.

- The use of the product containing the polymer should be in accordance with the NOHSC *National Guidance Material for Spray Painting* where appropriate.

Environment

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

Disposal

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

Emergency procedures

- Spills/release of the notified polymer should be handled by containment, and adsorption with material such as sand. Contaminated material (including sand) should be collected, placed into sealable labelled container and disposed of to landfill. Do not allow to enter drains or watercourses.

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.

15 PUBLICATION SUMMARY REPORT

Resin Components of Lexan SLX grades Summary Report Reference No: PLC/423

General Electric Plastics Pty Ltd of 175 Hammond Road, Dandenong, Victoria 3175 has submitted a synthetic polymer of low concern (PLC) notification statement in support of their application for an assessment certificate for Resin components of LEXAN SLX grades. The notified polymer is intended to be used to make plastic components for use in appliance parts. Thirty to three 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 Negligible Concern to public health when used as a photocopier toner.

Environment 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 in landfill or by incineration in accordance with federal, state and local regulations. Collected processing fume condensates and incinerator ash should be tested to determine waste classification.
- Empty import bags should be disposed of to landfill with any residual polymer.
- Recycling is encouraged.

Emergency procedures

- Spills/release of the notified polymer should be handled by gathering and storing in closed containers pending waste disposal evaluation.
- Allow molten material to solidify before disposal.

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.

16 PUBLICATION SUMMARY REPORT

**Polymer in Nalco 98 AUS047
Summary Report
Reference No: PLC/448**

Nalco Australia Pty Ltd (ABN 41 000 424 788) of 2 Anderson Street Banksmeadow NSW 2019 has submitted a synthetic polymer of low concern (PLC) notification statement in support of their application for an assessment certificate for Polymer in NALCO 98 AUS047. The notified polymer is intended to be used to achieve solid/liquid separation in waste circuits in mineral sands processing plants. Approximately 150 tonnes of the notified polymer will be manufactured 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, and all pondage will be contained within the mine site with no release to any natural waterways.

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 wastes containing the notified polymer should be disposed of in an approved incinerator or waste treatment/disposal site in accordance with all applicable regulations.
- The wastes should not be disposed of in sewer or with normal garbage.
- Empty containers should be triple rinsed (or equivalent), with the rinsate added to the slimes being treated, and the containers offered for recycling or reconditioning, or they should be punctured and disposed of in a sanitary landfill or by other procedures approved by state and local authorities.

Emergency procedures

- The product should be prevented from entering natural waterways or sewers.
- Soak up small spills with absorbent material and place in suitable, covered and properly labelled containers. Wash affected area.
- Soak up as thoroughly as possible with inert absorbent material or sawdust. Do not wash the affected area until all possible traces are removed as water in contact with the product will create a voluminous and slippery gel.
- Dispose of the contaminated recovered material via an approved waste hauler and in accordance with the disposal considerations.

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; and
- a more significant release to water such as the sewer or natural water bodies is likely to occur. Provision of freshwater aquatic toxicity data of the notified polymer rather than those currently available for a surrogate for marine species will be required.

The Director will then decide whether secondary notification is required.

No additional secondary notification conditions are stipulated.

17 PUBLICATION SUMMARY REPORT

**Aristoflex AVC
Summary Report
Reference No: PLC/473**

Clariant (Australia) Pty Ltd (ABN 30 069 435 552) of Warrigal Road, Chadstone VIC 3148; and Unilever Australasia Pty Ltd (ABN 66 004 050 828) of 219 North Rocks Road, North Rocks NSW 2151, have submitted a joint synthetic polymer of low concern (PLC) notification statement in support of their application for an assessment certificate for Aristoflex AVC. The notified polymer will be used a gelling agent for aqueous systems and as a texturiser, thickener for oil-in-water emulsions. Less than one tonne of the notified chemical 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 powder may cause irritation to the eyes and repeated or prolonged skin contact may result in mild irritation. A small fraction of the polymer particles are in the inspirable range and mechanical irritation to the respiratory tract may occur if inhaled.

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 intended manner.

Environmental Effects

The polymer is not considered to pose a risk to the environment based on its reported use pattern and PEC/PNEC ratio.

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 by incineration or landfill in accordance with State/Territory waste management regulations. Product containing the notified polymer should be disposed of to sewer.

Emergency procedures

- Spills/release of the notified polymer should be handled by sweeping and placing spilled powder in sealed container for disposal. 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.

No additional secondary notification conditions are stipulated.

18 PUBLICATION SUMMARY REPORT

Polymer in Polyurethane Dispersion 145049 Summary Report Reference No: PLC/474

Dow Chemical (Australia) Ltd of 541-583 Kororoit Creek Road Altona Vic 3018 has submitted a synthetic polymer of low concern (PLC) audited self assessment report in support of their application for an assessment certificate for Polymer in Polyurethane Dispersion 145049. The notified polymer is intended to be used industrially as component of formulated surface coatings and adhesives. One to 40 tonnes of the notified chemical will be imported per annum for each of the first five years.

ASSESSMENT OF PUBLIC, OCCUPATIONAL HEALTH AND SAFETY AND ENVIRONMENTAL EFFECTS

Environmental Assessment

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

Occupational Health & 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 to produce the components /materials described.

RECOMMENDATIONS

Control Measures

Occupational Health and Safety

- The following personal protective equipment is recommended in accordance with good occupational health and safety practice:
 - Chemical goggles, clean, body-covering clothing, and chemical gloves resistant to this material
 - In misty atmospheres, use an approved particulate respirator
- No specific engineering controls, work practices or additional 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

- It is recommended that any waste amounts of dispersion product containing the polymer substance are sent to a licensed, permitted, ; recycler, reclaimer, incinerator, or other thermal destruction device.

Storage

- The following precautions should be taken by distributors and product end-users regarding storage of the notified polymer / dispersion product:
 - Store between 40-110F (4-43C). Avoid Freezing.

Emergency procedures

- Spills/release of the notified polymer / dispersion should be handled by Isolate area.
- Keep unnecessary and unprotected personnel from entering area. Spilled material may cause a slipping hazard. Use appropriate safety equipment.
- Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.
- Contain spilled material if possible. Absorb with material such as clay or sand. Wash the spill site with large quantities of water.

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

Secondary Notification

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.

No additional secondary notification conditions are stipulated.

19 PUBLICATION SUMMARY REPORT

Polymer in Optiflo M2600/M2600VF Summary Report Reference No: PLC/490

Amtrade International Pty Ltd (ABN 49 006 409 936) of Level 6, 574 St Kilda Road Melbourne, VIC 3004 has submitted a synthetic polymer of low concern (PLC) notification statement in support of their application for an assessment certificate for Polymer in Optiflo M2600 / M2600VF. The notified polymer is intended to be used as a paint thickener. It will be incorporated into water-based paint formulations for sale to the trade and the public. Less than 50 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

As no toxicological data were available for the notified polymer the polymer cannot be assessed against the NOHSC Approved Criteria for Classifying Hazardous Substances. Due to the high molecular weight and low reactivity of the polymer, the toxicological hazard of the polymer is expected to be low. The residual monomer concentrations in the polymer are below the cutoff levels for classification of the polymer as a hazardous substance.

Occupational Health and Safety

The notified polymer is of 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 the finished paint products containing the notified polymer are used in the proper 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

- Use the imported products and finished paints containing the notified polymer with adequate ventilation. The MSDS recommends that local exhaust ventilation be used when opening the imported product containers or when the products are transferred.
- Protective eyewear, chemical resistant industrial clothing and footwear and impermeable gloves (composed of butyl rubber, nitrile rubber or neoprene) should be worn during occupational use of the imported products containing the notified

polymer in concentrated form. Where engineering controls and work practices do not reduce vapour and particulate exposure to safe levels, an air fed respirator should also be used.

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

- Spillage of the imported products and finished paints containing the notified polymer should be avoided. Spillages should be cleaned up promptly.

Disposal

- The notified polymer should be disposed of in accordance with State/Territory and Commonwealth legislative requirements and applicable waste management guidelines.
- Waste generated during industrial application of surface coatings containing the notified polymer should be disposed of through a licensed waste transporter to a licensed waste facility, such as a landfill or incinerator, in accordance with State/Territory and Commonwealth legislative requirements and applicable waste management guidelines.

Emergency procedures

- Large spills of the imported products should be contained by dyking, and pumped into resealable, labelled containers for recycling or disposal in accordance with State/Territory legislative requirements and applicable waste management guidelines. Soak up remainder with absorbent material. Small spills should be contained (e.g. by dyking) and absorbed with inert materials (e.g. sand, earth). Collect absorbed material into resealable, labelled containers for disposal in accordance with State/Territory legislative requirements and applicable waste management guidelines. Use caution to avoid slipping. Flush affected area with copious amounts of water but only if waters are collected for appropriate disposal in accordance with State/Territory legislative requirements. Keep spills and cleaning runoff out of municipal sewers, stormwater or open bodies of water.

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.

20 PUBLICATION SUMMARY REPORT

**Topas
Summary Report
Reference No: PLC/493**

Amtrade International Pty Ltd (ABN 49 006 409 936) of Level 2, 570 St Kilda Road, Melbourne VIC 3004 has submitted a synthetic polymer of low concern (PLC) notification statement in support of their application for an assessment certificate for Topas. The notified polymer is intended to be used for production of moulded articles and films, including food contact materials. Up to 400 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**

Topas has low potential for presenting health hazards resulting from its solid, pelletised form, lack of functional groups of concern and low solubility. Acute toxicity studies confirm the product is of low acute toxicity. 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 for production of finished articles and films including food-contact materials.

Environmental Effects

Topas is not considered to be a risk to the environment based on its form and use pattern.

*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 unless operator is likely to come in contact with molten material or pellets may enter eye. Eye protection should be worn if there is a risk of material entering eye. If handling or likely to contact molten material, operators should wear long trousers, shirt with long sleeves and insulated gloves.
- A copy of the MSDS should be easily accessible to employees.

Disposal

- The notified polymer should be disposed of in routine commercial waste.

Storage

- The following precautions should be taken by warehousing/storage facilities regarding storage of the notified polymer:
 - Avoid storage with strong oxidising agents.

Emergency procedures

- Spills/release of the notified polymer should be handled by sweeping and recovery. Material which has not been contaminated can be used. Contaminated material should be disposed of in commercial waste

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.

21 PUBLICATION SUMMARY REPORT

Polymer in S-9974 Summary Report Reference No: PLC/495

Cytec Australia Holdings Pty Ltd (ABN 45 081 148 629) of Suite 1, Level 1, Norwest Quay, 21 Solent Circuit, Norwest Business Park, Baulkham Hills NSW 2153 has submitted a synthetic polymer of low concern (PLC) notification statement in support of their application for an assessment certificate for Polymer in S-9974. The notified polymer is intended to be used as an anti-scalant agent. Less than 800 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 No 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 an anti-scalant agent.

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

- Engineering control procedures such as local exhaust ventilation should be used.
- Personnel should wear a two-piece PVC suit with hood or PVC overalls with hood and ensure adequate ventilation is present during the metal refinery when transferring the S-9974 containing the notified polymer and during routine maintenance and repairs.

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 to landfill or incinerated according to State and local government regulations.

Emergency procedures

- Spills of the notified polymer should be handled by covering spills with some inert absorbent and sweeping material up into containers for disposal to landfill. Flush spill area with water.

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.

22 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.

23 LOW VOLUME CATEGORY PERMITS

The permits listed in Table 2 were issued to import or manufacture the following chemicals under section 21U of the *Industrial Chemicals (Notification and Assessment) Act 1989*. Low Volume Category Permits are approved for 36 months.

Table 1
Low Volume Category Permits

PERMIT NUMBER	COMPANY NAME	COMPANY POSTCODE	CHEMICAL OR TRADE NAME	HAZARDOUS SUBSTANCE	USE	DATE
658	Firmenich Limited	2093	Walnut Ester	Yes	Cosmetic	20.8.04
659	Trimex Pty Ltd	2018	Polyquaternium 59	Yes	Cosmetic	20.8.04
660	ISP (Australasia) Pty Ltd	2141	2,5-Furadione polymer with 2-methyl-1-propene, ethyl ester reaction product with N,N-dimethyl 1,3-propandiamine & polyethylene glycol 2-aminopropyl Me ether	ND	Cosmetic	20.8.04
661	Caltex Australia Petroleum Pty Ltd	2000	Chemical in Starplex HD2	ND	Component of a grease product	27.8.04
662	Australasian Lubrication Manufacturing Company	4178				
663	Dow Chemical (Aust) Ltd	3018	XTJ-505 Additive	Yes	Lubricant additive	10.9.04
664	Castrol Aust Pty Ltd	2161				

N.D.: not determined; insufficient data available to effect a health effects classification under Approved Criteria [NOHSC:1008(1999)]

24 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 2
Commercial Evaluation Category Permits

PERMIT NUMBER	COMPANY NAME	COMPANY POSTCODE	CHEMICAL OR TRADE NAME	HAZARDOUS SUBSTANCE	QUANTITY	USE	PERIOD APPROVED
593	Ashland Pacific Pty Ltd	2162	Isocure I AL XX486	Yes	4000 kg	Resin binder for metal sand casting	6 months
594	GE Betz Pty Ltd	2565	Hexafluorotitanic acid	Yes	4000 kg	Metal surface treatment & acid mist suppressant	6 months
595	DIC International (Australia) Pty Ltd	3175	Component in Daicure 6200	Yes	4000 kg	Curable resin in surface coatings	2 yrs

25 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 3

Early Introduction Permits

PERMIT NUMBER	COMPANY NAME	CHEMICAL OR TRADE NAME	USE
341	Kodak Australasia Pty Ltd	Component of Budex 5103	Photography
342	PPG Industries Australia Pty Ltd	Polymer in PPG2790-301A/190K	Packaging
343	Akzo Nobel Pty Ltd	Polymer in EMA 1015 Resin	Surface coating
344	BASF Akzo Nobel Automotive OEM		
345	Akzo Nobel Pty Ltd	Polymer in ACW-1011 Resin	Surface coating
346	BASF Akzo Nobel Automotive OEM		
347	Akzo Nobel Pty Ltd	Polymer in Adekanol UH-814N	Surface coating
348	BASF Akzo Nobel Automotive OEM		

26 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 4

Chemicals Eligible for Listing on the Australian Inventory of Chemical Substances

CHEMICAL NAME	CAS NUMBER	MOLECULAR FORMULA
2-Propenoic acid, 2-methyl-, methyl ester, polymer with ethenylbenzene and 2-propenenitrile	25213-88-1	$(C_8H_8.C_5H_8O_2.C_3H_3N)_x$
Glycine, N-[3-(acetylamino)phenyl]-N-(carboxymethyl)-, mixed Et and Me diesters, reaction products with diazotized 2-chloro-4-nitrobenzenamine	188070-47-5	Unspecified
Benzene, 1,1'-oxybis-, sec-hexyl derivs., sulfonated, sodium salts	147732-60-3	Unspecified
Castor oil, hydrogenated, polymer with p-tert-butylbenzoic acid, fumaric acid, phthalic anhydride and trimethylolpropane	198495-69-1	Unspecified
2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, butyl 2-propenoate, ethenylbenzene, 2-hydroxyethyl 2-propenoate, methyl 2-methyl-2-propenoate, methyl 2-propenoate and oxiranylmethyl 2-methyl-2-propenoate	206987-67-9	$(C_8H_{14}O_2.C_8H_8.C_7H_{12}O_2.C_7H_{10}O_3.C_5H_8O_3.C_5H_8O_2.C_4H_6O_2.C_4H_6O_2)_x$
Propanoic acid, 2-hydroxy-, compound with alpha-(2-aminomethylethyl)-omega-(2-aminomethylethoxy)poly[oxy(methyl-1,2-ethanediyl)] polymer with (chloromethyl)oxirane and 4,4'-(1-methylethylidene)bis[phenol]	154979-42-7	$(C_{15}H_{16}O_2.(C_3H_6O)_n C_6H_{16}N_2O.C_3H_5ClO)_x. xC_3H_6O_3$
Fatty acids, C18-unsatd., dimers, polymers with polyethylene glycol and sebacic acid	366491-45-4	Unspecified
Dodecanoic acid, polymer with aziridine, 2-oxepanone and tetrahydro-2H-pyran-2-one	202263-77-2	$(C_{12}H_{24}O_2.C_6H_{10}O_2.C_5H_8O_2.C_2H_5N)_x$
2-Naphthalenesulfonic acid, 7-[[4,6-bis[[3-(diethylamino)propyl]amino]-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[[4-[(4-sulfophenyl)azo]phenyl]azo]-, disodium salt	120029-06-3	$C_{39}H_{50}N_{12}O_7S_2.2Na$
1,3-Benzenedicarboxylic acid, polymer with 2,2-bis(hydroxymethyl)-1,3-propanediol, 2,2-dimethyl-1,3-propanediol, hexanedioic	71010-58-7	$(C_8H_6O_4.C_8H_4O_3.C_6H_{10}O_4.C_5H_{12}O_4.C_5H_{12}O_2)_x.xC_7H_6O_2$

acid and 1,3-isobenzofurandione, benzoate		
2-Propenamide, 2-methyl-N-[2-(2-oxo-1-imidazolidinyl)ethyl]-	3089-19-8	C ₉ H ₁₅ N ₃ O ₂
3-Pyridinol, 2-amino-	16867-03-1	C ₅ H ₆ N ₂ O
Imidazolium compounds, 2-(C17 and C17-unsatd. alkyl)-1-[2-(C18 and C18-unsatd. amido)ethyl]-4,5-dihydro-1-methyl, Me sulfates	72749-55-4	Unspecified
Phenol, 2-methyl-, reaction products with 5-ethylidenebicyclo[2.2.1]hept-2-ene, hydrogenated	224790-80-1	Unspecified

27 NOTICE OF AMENDMENTS TO THE AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES

Notice is given in accordance with section 20 of the *Industrial Chemicals (Notification and Assessment) Act 1989* (the Act) that the following amendment have been made to the Australian Inventory of Chemical Substances (AICS).

Table 5

Amendment to AICS

Addition of CAS number, CAS approved chemical name, molecular formula to AICS.

CHEMICAL NAME	CAS NUMBER	MOLECULAR FORMULA
Thiophene, 3-(decyloxy)tetrahydro-, 1,1-dioxide	18760-44-6	C ₁₄ H ₂₈ O ₃ S

28 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 6

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

CHEMICAL NAME	CAS NUMBER	MOLECULAR FORMULA
Bicyclo[2.2.1]hept-2-ene, polymer with ethene	26007-43-2	(C ₇ H ₁₀ .C ₂ H ₄) _x
Siloxanes and Silicones, 3-[(2-aminoethyl)amino]-2-methylpropyl Me, di-Me, reaction products with N,N,N-trimethyloxiranemethanaminium chloride	495403-02-6	Unspecified