



PAWprint

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Tiger Chemical Company



EDITORIAL

Welcome to the 12th edition of PAWPRINT

We have been very busy Tigers over the last few months getting ourselves GST ready. We have received our ABN number and GST registration, and have readied our accounting system to cope with our new job of being a tax collector for the government, on top of our usual business role of supplying goods and services to industry.

We have also set up our own corporate entity in New Zealand, Tiger Chemicals (NZ) Ltd. This will greatly facilitate our business activities in New Zealand, being able to invoice our Kiwi customers in New Zealand dollars, together with their GST of 12.5%.

We have now settled into our office in North Melbourne, and it is frustrating still that many of our customers have not yet updated our new address details in their systems.

We are continually expanding our range of products with which to service our customers in the Surface

Coatings, Detergent and Textile industries. The addition of Titanium Dioxide and Pigment Dispersions has certainly helped us to forge ahead in the Paint Industry. Exciting new products, particularly in our Pharmaceuticals and Fine Chemicals division continue to drive our expansion into these specialised business areas.

We endeavour to make this quarterly newsletter technically informative. It is aimed at both technical and purchasing staff, so please read it carefully, and call me if you have any comments, criticism is always welcomed.

Kind regards,

Rex Gordon

EXPO2000: Tiger becomes major sponsor.

The annual conference of the Surface Coatings Association of Australia (SCAA) will be held at the Carlton Crest Hotel in Melbourne 6-9 September. The conference also includes a trade exhibition EXPO2000. Tiger will be exhibiting at booths 40 and 41. We will be putting our company's activities on display to the chemical industry as a whole. Please mark the dates in your diary and come and visit us, whether you are in the Surface Coatings Industry or not.

We are now GST-ready!

In accordance with the requirements of the ATO, we have already received our ABN number, and have set up our accounting system to issue Tax Invoices. Our ABN number is 56 007 030 720, and from 1st July 2000 invoices to our customers will include the 10% GST. Please give Rex a call if you are still unsure how the GST will affect your transactions with Tiger Chemicals, whether you are a supplier, or a customer.

Detergent Corner

In this issue we focus on a number of specialty surfactants, and how they can be of help in solving your problems in the formulation of cleaning products.





ALAK'S PHARMACEUTICAL CORNER

As well as importing bulk Pharmaceuticals for human and animal health we are able to offer a contract synthesis service to our customers. The manufacture of fine chemical intermediates and Pharmaceuticals may require perhaps a twenty stage synthesis. We invite our customers in this area to sit down and discuss with myself and Rex ways of saving your resources by having the compounds synthesised under contract either in Australia or in cGMP audited plants elsewhere in the world that specialise in the chemistry of your particular requirement. It maybe desirable to have the first five, ten or more stages of your synthesis path carried out overseas. Let Tiger take care of all the NICNAS and HAZCHEM requirements. This service is a confidential service and we fully understand your requirements regarding patented technologies.

New Pharmaceuticals and intermediates now in stock:

Cyanocobalamin BP/USP
Frusemide BP/USP
Gamma-Oryzanol
Hydroxocobalamin Acetate Inj. BP/USP
Niclosamide BP/USP
Oxantel Embonate
Permethrin 25:75(Tech)
Prednisolone BP93
Sodium Arsanilate
Trimethoprim (micro) BP/USP

TIGERFAX 60R

This product is a fully biodegradable Phosphate Ester surfactant. It is an excellent hydrotrope meaning it can be used as a coupling agent to aid the solution of Phosphates, Metasilicates, non-ionic surfactants in solution. In the formulation of cleaning products such as built detergents (phosphate containing) splitting is often a problem. The amount of alkali salts, Co-solvents such as glycol ethers and surfactants you can dissolve in water is severely limited by the interaction of all these products in a single system. This leads to a kind of phase separation. In fact TIGERFAX 60R and its sister product 61R are so effective as coupling agents it is also possible to dissolve non water-miscible solvents such as Xylene in water. This can lead to interesting possibilities in the formulation of water-based "solvent" degreasers. Below is a formula containing Tigerfax 60R, without which the system would be subject to separation on storage.

ALL PURPOSE CLEANER

TIGERFAX 60R	5.0%
LABS Acid	5.0%
Sodium Hydroxide	1.3%
TIGERFAX CDE	1.0%
STPP	10.0%
Water	77.7%
	100.0%

TIGERQuat 50

Tiger Chemicals can also offer Quaternary Ammonium Compounds. These are cationic surfactants which are effective at killing bacteria. Most commercial disinfectants contain 1-2% of this type of compound. Below are two formulations for disinfectants using TIGERQuat 50.

DISINFECTANT

TIGERFAX LA8	2.3%
TIGERQuat 50	1.6%
(Quaternary Ammonium Compound)	
Ethanol	5.0%
Water	91.1%
	100.0%

Disinfectants are often heavily perfumed with pine or citrus. It is suggested that the product be diluted 1:20 in water for mopping bathrooms etc.

DISINFECTANT CLEANER

S.T.P.P	3.00%
(Sodium Tri Poly Phosphate)	
T.K.P.P.	3.00%
(Tetra Potassium Pyro Phosphate)	
BUTYL GLYCOL	5.00%
TIGERFAX LA8	5.00%
Quat 50	5.00%
Water, Dye, Perfume	79.00%
	100.00%

This product should be diluted 1:20 before use. It is suitable for sale to hospitals, contact cleaners and similar outlets.

Ethanolamines

Tiger Chemicals stock Mono and Triethanolamine. These compounds are manufactured by reacting ethylene oxide with ammonia. Through a series of separations mono, di and Triethanolamine are obtained. Diethanolamine is also available on an indent basis. Triethanolamine is available as 85% or 99%. The 99% product has a melting point of approximately 21°C.

These compounds have numerous applications, some of which are:

- **Detergents and Emulsifiers:** fatty amides and soaps of ethanolamines have good detergency and foam stability. They are soluble in water as well as in organic solvents.
- **Textiles:** Ethanolamines hygroscopic and emulsifying properties and low alkalinity make them suitable as softening agents and plasticisers in textiles. For example, ethanolamine soaps of natural oils such as castor oil, are used as softening agents and are easy to remove because of their water solubility.
- **Gas Treatment:** Ethanolamines are widely used in treating gases. For example, in removing carbon dioxide or hydrogen sulphide in refineries or natural gas purifying plants, in concentrating carbon dioxide in dry ice plants, and in removing carbon dioxide in ammonia plants.
- **Shampoo and Toiletries:** emulsifiers from ethanolamines are important raw materials of toilet goods because of their weak alkalinity, water solubility and detergency.

- **Waxes, Polishes and Coatings:** Ethanolamine soaps are used as emulsifying and dispersing agents for many types of waxes and polishes.

The detergent property of these water-emulsion waxes also helps in cleaning the surface being polished.

Triethanolamine aids in dispersing shellac, dyes, rubber latex and casein and in neutralising acidic clays, oils and pigments.

- **Metal Industry:** Ethanolamine soaps are used as additives in cutting oils, lubricants, and engine coolants.

- **Pharmaceutical:** Derivatives from ethanolamines are used in the synthesis of many common drugs and anaesthetics.

- **Cement Additives:** Triethanolamine salts of various acids are used as cement and concrete additives to reduce setting time and increase resistance to crumbling due to repeated freezing and thawing.

- **Photo Developers:** Lignin sulphonic and calcium salt mixtures of Triethanolamine are used as dispersing agents for photo developers.

Please contact Rex or Bruce if you require more details on these compounds.

STOP PRESS:

The National Registration Authority which regulates the Veterinary Pharmaceutical industry has informed us that initial requirements of our Permethrin have been met. We shortly hope to receive full registration on our product enabling it to be sold into a much wider market including insecticides, moth proofers and animal health products. Please give Alak a call on 1800-35-3099 to discuss your requirements.

Top Tips

1. Save time when making a cup of tea by pre-heating the water in a saucepan before putting it in the kettle
2. Try painting a red cross at the bottom of tea cups. When this becomes visible your cup will be empty and you may wish to condier a refill.
3. Treat yourself on birthdays or other special occasions by carrying your favorite comfortable chair around with you everywhere you go. When you get tired of carrying the chair you sit down in it and give yourself a well earned rest.



Paint Raw Materials:

We hold in stock over twenty different pigment dispersions in stock, as well as emulsion polymers for the surface coatings industry. The following products are all ex-stock, with many held in all major capital cities:

PRODUCT

PACK SIZE kg

ACRYLITE 04-600 Thickener	200
ACRYLITE 04-202 PVA/AC Copolymer	210
ACRYLITE 04-197 Full Acrylic	210
ACRYLITE 04-701 Styrene/Acrylic	210

AQUASOL WHITE 800	30
AQUASOL YELLOW OXIDE 820	30
AQUASOL RED OXIDE 812	30
AQUASOL BRUNSWICK GREEN	30
AQUASOL GREEN 850	30
AQUASOL YELLOW 826	20
AQUASOL RED 808	20
AQUASOL GREEN 854	20
AQUASOL BLUE 857	20
AQUASOL BLACK 898	20

DISPERSOL MED CHROME YELLOW 329	25
DISPERSOL YELLOW OXIDE 320	25
DISPERSOL MOLY ORANGE 317	25
DISPERSOL BROWN OXIDE 312	25
DISPERSOL RED 305	20
DISPERSOL BON MAROON 3091	20
DISPERSOL PHTHALO BLUE 355	20
DISPERSOL PHTHALO GREEN 354	20
DISPERSOL BLACK 398	20



Certificates of analysis are also available for each item.

Also in stock in Melbourne, Sydney, Brisbane and shortly Perth are Propylene Glycol, Monoethylene Glycol, Hexylene Glycol, MEKO, EN-250, and Tigersperse 40.

