UNITAN S.A.I.C.A.

MATERIAL SAFETY DATA SHEET

UNITAN ATO

MSDS-15-010
Rev: A
Date: 07/01/2011

1 SUSTANCE IDENTIFICATION:

Chemical Name: Quebracho Extract vegetable Tannin
Chemical Family: Tannin

2 COMPOSITION/INFORMATION ON INGREDIENTS:

Spray dried extract of Quebracho Colorado (Schinopsis Balansae) wood treated with small quantities of sodium bisulphite and formic acid to decolourise it.

Unreacted Sodium Bisulphite: Up to 0.5 %
Unreacted Formic Acid: Up to 0.1 %
Sulphur Dioxide: Up to 0.1 %

Hazardous mixture depends on chemicals mixed with Quebracho extract.

3 HAZARDS IDENTIFICATION:

Threshold Limit Value: None established.
Effects of Overexposure: None established.

In common with another particulates, existing lung disorders may be aggravated by exposure to high dust concentrations.

4 FIRST- AID MEASURES:

Although ingestion and skin contact are not harmful, ingestion should be avoided. In case of contact with eyes, with powder or aqueous solution, irrigate with sterile saline solution.

5 FIRE-FIGHTING MEASURES:

Not normally flammable but under extreme heat conditions will smoulder. Any usual fire fighting measures for example water, water fog or CO_2.

6 ACCIDENTAL RELEASE MEASURES:

Prepared by:	Controlled by:	Aproved by:
Luis Malugani	J.P. Zito	

Date:

In powder form, minimise dust while sweeping up using damp sand or other dust reducing medium.

In solution, dilute with copius water and flush to drain.

7 HANDLING AND STORAGE:

Store in cool dry conditions. Do not use hooks for handling sacks. Use handling methods designed to minimise dust emission.

8 EXPOSURE CONTROLS/ PERSONAL PROTECTION:

Goggles are necessary if handling procedures do not control dust or splash adequately. In line with good hygiene practice, impervious gloves, apron and boots should be worn during processes using the material to prevent prolonged skin contact.

Other substances added during subsequent processes in which the material is used may present their own hazards which need separate consideration.

9 PHYSICAL AND CHEMICAL PROPERTIES:

Physical Type:	Powder
Colour:	Redish Brown
Odour:	Pleasant characteristic odour
Boiling Point:	Descomposes to 170 °C
PH:	Of 0,6 % solution is 4.2 - 5.5
Solubility in water:	Over 80 % in water between 15 - 18 °C and 100 % in hot water

10 STABILITY AND REACTIVITY:

Stable under normal conditions. On thermal decomposition behaves as other ligneus materials.

11 TOXICOLOGICAL INFORMATION:

Acute health effects are confined to eye irritation and aggravation of any existing lung disorders if excessive quantities of the material as dust are inhaled.

The material is not known to present any chronic health effect including sensitisation, carcinogenicity, mutagenicity and adverse reproductive activity. There is research evidence that tannins inhibit mutagenicity.

12 ECOLOGICAL INFORMATION:

The material in its supplied form is a natural vegetable product which consists mainly of a condensed tannin. Other non-natural compounds are only present at concentrations below 1 %.

It is slowly biodegradable and does not persist in soil. In common with other tannins the material exhibits some slight aquatic toxicity which can be minimised by dilution with copious water.

13 DISPOSAL CONSIDERATIONS:

Initially, the material will have a high Chemical Oxygen Demand (COD) and requires dilution with copious water before being discharged to normal drains or watercourses.

After use the solutions may contain other contaminants (e. g. chrome compounds in the tanning processes) which will be the main determinant of the disposal process.

14 TRANSPORT INFORMATION:

Not listed as a substance or preparation dangerous for carriage and does not come within any of the classifications pertaining to such listing.

No special transport precautions necessary.

15 REGULATORY INFORMATION:

The material is regarded as coming within the scope of the Chemicals (Hazard Information and Packaging) regulations by reason of its classification as an eye irritant.

This classification means that it also comes within the scope of the Control of Substances Hazardous to Health Regulations 1989.

In other European Union countries, the appropiate national legislation will be broadly similar so as to copy with the EC Directives.

16 REVISES REGISTER:

Rev.	Date	Modifications
A	01/06/98	Format actualization and normalization