
1. PRODUCT IDENTIFICATION

Product Name	RETAN TDT
Supplier	S.C. RAOUL-DUVAL & Cie 7, place Léon-Meyer, B.P. 1414 F-76067 Le Havre Cedex, France Tel 02 35 19 66 20 Fax 02 35 21 55 08
Urgency phone number	02 35 19 66 20

2. PRODUCT COMPOSITION

Composition	Spraydried extract of exotic wood from pyrogallol type.
Dangerous ingredients	NONE

3. HAZARD IDENTIFICATION

Under normal use conditions, this product is stable. The product is astringent and of bitter taste. May give off SO₂ and SO₃ under action of extreme heat.

It can provoke respiratory difficulties by inhalation of the powder and gastric and intestinal disorders by ingestion in large quantity.

Labelling	Xi irritant
R36/38	Irritating to eyes and skin
S24/25	Avoid contact with skin and eyes
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28	After contact with skin, wash immediately with plenty of water
S37/39	Wear suitable gloves, and eye/face protection

4. FIRST AID MEASURES

Skin contact	Wash with water
Eyes contact	Rinse with a sterile saline solution.
Ingestion	In case of accidental, seek for medical advice.
Inhalation	Wash mucous membranes. If irritation persists, seek medical advice.

5. FIRE PRECAUTIONS/FIRE FIGHTING

All extinguisher types can be used.

In case of fire, the product can give off bitter and irritant fumes, and SO₂, SO₃, pyrocatechol. Respiratory masks are recommended.

6. ACCIDENTAL RELEASE

Workers' protection	wear personal protective clothes
Protection and Cleaning	Sweep up, wash residue with water and mix residue with sawdust. Dispose of according to local regulations or incinerate.
Neutralisation	In aqueous solution, the product precipitates the metallic salts and specially alumine sulphate.

7. HANDLING & STORAGE

Handling	Wear respiratory masks to avoid respiring dusts or absorbing by inhalation.
Storage	Keep away from air and humidity. The product is slightly hygroscopic and becomes oxidized with air.

Do not use hooks for handling the bags.

8. PERSONAL PROTECTION

Handling	Wear personal protective equipment
Hands	Rubber or PVC gloves can be advised

Follow good hygiene conditions and wear personal protective equipment.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance (colour)	brown
Form	spraydried powder
Odor	characteristic
pH (10 % aqueous)	4.0 +- 1.0
Solubility in water	soluble
Decomposition T°C	> 250°C
Flash point	N/A
Melting point	N/A
Bulk density	0.5 g/cm ³

10. STABILITY & REACTIVITY

Under normal use conditions, this product is stable. It precipitates in presence of metallic salts and specially iron ones and gelatine. It is sensitive to oxidizing agents. At high temperature, may give off pyrocatechol, SO₂ and SO₃.

11. TOXICOLOGICAL INFORMATION

We have no figure on toxicological values actually.

Analysis on similar tanning extract gives :

LD 50 oral rat	3,100 mg/Kg
LD 50 skin rat	7,000 mg/Kg

No disastrous effect, no sensitisation to this product have been reported until today.

As every pulverulent product the powder may provoke respiratory problems by inhalation.

12. ECOLOGICAL INFORMATION

Natural product of high molecular weight ; biodegradability is low. The product is very sensitive to metallic salts and is disposed of in waste waters under the form of mud by treatment with alumine sulphate. Although the effects on environment and waters are not disastrous, at the moment we have no figure on ecotoxicity.

In aquatic places, the product is not toxic at concentration under 2 %.

13. WASTE DISPOSAL

Dispose of according to local regulations. The product is eliminated of aqueous solutions by precipitation under the form of muds with alumine sulphate (formation of alumine tannate). Elimination of residue and packing by incineration.

In its initial form, the product has a high chemical demand in oxygen and has to be diluted before elimination.

14. TRANSPORT INFORMATION

The product is not regulated

15. REGULATORY INFORMATION

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Health & Safety Regs.

EC Directives	76-464, 78-318, 80-68, 91-156
EC Directive	93-18 of 5th April 1993

Official French Gazette of 28th March 1993, Decree of 1st October 93 relative to taking off and water consumption as well as to disposals of any type, and specially,

Chapter VI Art. 60	water pollution
Chapter VII Art. 61	environmental evaluation
Chapter VIII Art. 63/64/65	control of effects on environment

16. OTHER INFORMATION

This product should be stored, handled and used in accordance with good industrial hygiene practices and in conformity with any legal regulation. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not, therefore, be construed as guaranteeing specific properties.