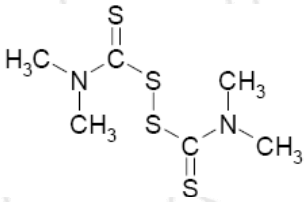
Flowsan®FS



Technical Data Sheet

Chemical synonym

Thiram
TMTD, tetramethylthiuram disulfide

General information

CAS number : 137-26-8
Molecular formula : $C_6H_{12}N_2S_4$
Molecular weight : 240.4

Description

Red Flowable concentrate for Seed treatment.

Principal Applications

FLOWSAN® FS is a new seed-treatment formulation specifically designed for the dressing of maize seeds. It is adapted to the newest industrial technologies as well as to farm scale processes.

- **spectrum of actions**

FLOWSAN® FS provides an overall sanitization of the seeds but also of the surrounding soil. It protects the emerging seeds from seed decay and damping-off caused by soil borne fungi and fungi present onto the seed at the time of sowing. FLOWSAN® FS protect the seeds and the emerging seeds from primary infections caused by *Pythium*, *Fusarium* and *Rhizoctonia* as well as secondary infections caused by non specific pathogens like *Botrytis*, *Rhizopus*, *Alternaria*.

- **repellency**

As a strong bird and rodent repellent, FLOWSAN® FS prevents the seeds and the newly sown crops from being eaten by predators like crows, pheasants, mice.

- **selectivity**

Not being phytotoxic, FLOWSAN® FS can be safely applied to valuable seeds. The active ingredient is being used for a long time on all kind of seeds, including the high added value new hybrids.

- **phytotonicity**

A noticeable phytotonic effect is often observed with the seeds treated with FLOWSAN® FS. It enhances germination rates and promotes initial growth, thus limiting the sensibility of the seedlings to the diseases.

Specifications

	Units	Values	Test methods
Thiram content	g/l	533 ±25	Clarcke

Physical & Chemical Properties

Density (at 20°C):	1.16 – 1.26
pH 1% w/v:	5.3 – 7.3

Packaging	1000 liters IBC's 210 liters PE drum 60 liters PE drum 25 liters PE drum
Storage	Keep the product in frost free conditions.
Registrations	Thiram, the active ingredient of FLOWSAN® FS, is registered by Taminco worldwide and enables the free circulation of the seeds. Thiram is included in the E.U. Annex I list.
Formulation	FLOWSAN® FS contains selected polymers and pigments which give its outstanding properties to the formulation. The polymers allow the product to be maintained onto the seed in all types of conditions. They avoid the formation of dust during handling and repacking of treated seeds, and they maintain the active ingredient in the surrounding of the seeds after sowing. The treated seeds can be stored from one year to the next; FLOWSAN® FS protects the seeds during storage and does not have negative effect on the germination of the seeds.
See Material Safety Data Sheet for:	Labeling, Transport Regulations, Toxicology, Ecotoxicology, Fire Risk and First Aid Measures

Contact

Europe, Middle East & Africa
Taminco BVBA – Pantserschipstraat 207, 9000 Ghent, Belgium
phone: +32 9 254 1411
fax: +32 9 254 1410
e-mail: fungicides@taminco.com

North & Latin America
Taminco Inc, Two Windsor Plaza, 7540 Windsor Drive, Suite 411, Allentown, PA 18195, USA
phone: +1 610 366 6730
toll free: +1 888 826 4680
fax: +1 610 366 6784
e-mail: fungicides@taminco.com

Asia-Pacific
Taminco BVBA Shanghai Representative Office, B-3303 City Centre of Shanghai, 100 Zun Yi Road, 200051 Shanghai, China
phone: +86 21 5109 7998
fax: +86 21 6235 1382
e-mail: fungicides@taminco.com

Visit our website to check our production plants and local offices: www.taminco.com

The latest available version of this Technical Data Sheet is always available on www.taminco.com

Important notice: This technical data sheet is provided a s a quick reference on the main characteristics and applications of the product presented in it. The information contained in it is correct to the best of our knowledge but it has not contractual value and it should not be understood as an express or implied guarantee or warranty of any kind. It shall not result in any liability for Taminco whatsoever, including any liability for any use made of the product in accordance with this technical data sheet or any liability for violation of third party intellectual property rights resulting from its use. All information in this technical data sheet is provided without prejudice to the intellectual property rights of Taminco or of third parties. Users should not act on any information in this technical data sheet unless and until Taminco has expressly confirmed such information. In addition, consultation of the technical data sheet shall not relieve the user from undertaking his own investigations and tests with regard to the fitness for his purposes of the products presented.