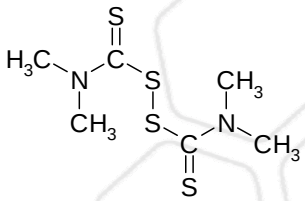
Thiram P and WP

Technical Data Sheet



Chemical synonym

Tetramethylthiuram disulfide
Bis (dimethyldithiocarbamoyl) disulfide
Thiuram

General information

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

Description

Two grades are available:

- THIRAM P (Thiram technical Phyto), a fast-wetting phyto grade product for use in pesticide formulations,
- THIRAM WP, a ready to use wettable powder formulation.

These two products are creamy-white powders.

Principal Applications

- Fungicide for crop protection: fruit trees and berries, vineyards, vegetables, market gardening, ornamental plants and flowers.
- Fungicide for seed dressing.
- Repellent to protect seeds and crops from being eaten by birds, small mammals, rabbits and game (deer, hares).

Thiram controls among others the following diseases:

- Pit fruits : *Venturia* (scab), *Monilia* (brown rot), *Stemphylium* (brown spot of pears), *Botrytis Gloeosporium* (bitter rot), *Alternaria*.
- Stone fruits : *Taphrina* (leaf curl), *Coryneum* (shot holes) *Monilia.*
- Strawberry : *Botrytis, Colletotrichum* (black spots) and *Phytophtora*
- Banana : *Mycosphaerella* (sigatoka disease)
- Vegetables : *Botrytis, Colletotrichum* (anthracnose), *Septoria, Plasmodiophora, Rhizoctonia.*
- Grapes : *Botrytis, Anthracnosis.*
- Seeds : *Pythium, Fusarium, Rhizoctonia, Alternaria, Septoria, Phoma*.

For authorized crop protection uses, please refer to the registrations in your country.

Thiram is compatible with IPM (Integrated Pest Management) programs, as it is neutral to beneficial insects and Typhlodromus.

Thiram is not phytotoxic.

Specifications

Assay : the analytical method was developed within Taminco from an adaptation of CIPAC 24/1/M.1/1.2 preceded by reduction with Na2S in

taminco people and molecules

tetrahydrofuran medium.

Assay and assay tolerances conform to legal and registration requirements in each country. Thiram powder is available with assays of 98% (P) and 80% (WP)

Specifications	P	WP	Test methods
Assay (%)	Min. 98	78 - 82	CIPAC 24/1/M.1/1.2
Loss on drying at 60°C (%)	Max. 0.5	max. 1.5	Gravimetry
Wet sieving test, residue on 0.125 mm sieve (%)	Max. 0.5	max. 0.5	CIPAC MT 59.3

Physical & Chemical Properties

Soluble in ethanol, chloroform and carbon disulfide.
Very slightly soluble in acetone and benzene.
Practically insoluble in water.
Dispersable in water.
Decomposes under acidic conditions.
Melting point approx. 250°C (with decomposition).

Registrations

Taminco has full data package on the toxicology, ecotoxicology and environmental fate of Thiram and has registrations for the product in more than 30 countries worldwide.

Thiram of Taminco is registered in the list of accredited active ingredients at EU level (Annex I of directive 91/414/EC).

For more specific information on your country, please contact us on the co-ordinates indicated below.

Packaging

20 valve bags.
Thiram P is also available in 500-kg big bags (IBC's).

Storage

Store in a dry well-ventilated place away from foodstuffs. No reduction in the assay of the active substance has been observed after storage for 2 years in the original packing under normal conditions.

Protect against acids and substances liberating acids.

In the event of accidental spillage the split product should be collected for incineration. Notify the appropriate authorities immediately if there is any risk of contamination of watercourses.

Fire risk

The product is combustible at high temperature. Fire or heating can cause decomposition to toxic vapours (nitrogen oxides, carbon oxides and sulphur oxides).

See Material Safety Data Sheet for:

Labeling, Transport Regulations, Toxicology and Ecotoxicology

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