

SAFETY DATA SHEET**PRODUCT :****MICROTHIOL SPECIAL**

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SDS Nr : 300AT16

Version : 1.02

Date : 10/06/1997

1 IDENTIFICATION OF THE PRODUCT AND THE COMPANY

TRADE NAME	MICROTHIOL SPECIAL
TYPE OF PRODUCT AND USE	WG - water dispersible granules. FUNGICIDE
RESPONSIBLE FOR PLACING ON THE MARKET	ELF ATOCHEM AGRI S.A. 1, rue des Frères Lumière, BP9, 78373 PLAISIR Cedex (France) TEL.(33)1.30.81.73.00-TELEX 696 023-FAX (33)1.30.81.72.50
EMERGENCY PHONE NUMBER	ORFILA - (33)1. 45.42.59.59

2 COMPOSITION / INFORMATION ON THE INGREDIENTS**IDENTIFICATION OF THE PREPARATION**

Generic name	SULFUR
IUPAC name	Sulfur.
Chemical formula	S8 (256.48)
CAS number	7704-34-9
Chemical family	Non metallic element
Concentration	80 %

3 HAZARDS IDENTIFICATION

MOST IMPORTANT HAZARDS	Dust cloud can burst into flames on a flame contact or a static discharge.
Adverse human health effects	May cause irritation to eyes and skin.

4 FIRST-AID MEASURES

PRECAUTION	If you feel unwell, seek medical advice (show the label where possible). In case of loss of consciousness, artificial respiration should be performed. Ventilate thoroughly the working place.
INHALATION	Move to fresh air. Patient should be sitting in a half upright position, loosen clothes.
SKIN CONTACT	After contact with skin, wash immediately thoroughly with soap and water.
EYE CONTACT	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
INGESTION	If aspiration is suspected (during vomiting, for instance), seek medical advice urgently.
- Contact with clothes	Change clothes when contaminated and in any case when the work is over.
INFORMATION FOR DOCTORS	Treat symptomatically, no specific antidote.

5 FIRE-FIGHTING MEASURES

Suitable	Carbon dioxide, dry chemicals, foam, water spray (fog).
Not to be used	Avoid high pressure water stream.
SPECIAL EXPOSURE HAZARDS	Dust may form an explosive mixture with air. Combustion gas are toxic.

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In case of a significant fire use a respiratory apparatus with SO² cartridge or self contained.

Protection against fire

Keep away from sources of ignition - No smoking.
Ground all hoppers and pipes to avoid static discharge.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Avoid contact with skin.

ENVIRONMENTAL PRECAUTIONS

Remove sources of ignition.
Stop any eventual leakage.
Do not release into sewers or natural water.

After spillage / leakage

- on soil

Sweep up or vacuum to collect product without dust and incinerate according to regulation or recycle.

7 HANDLING AND STORAGE

TECHNICAL PROTECTIVE MEASURES

Keep the product in the original container, away from food, animal foodstuffs and out of reach of children.

Take precautionary measures against static discharges.

Avoid dust formation.

Do not breath the dust.

HANDLING

Avoid producing or diffusing dust into the air.

STORAGE

Store away from heat source, 40°C maximum. Avoid static build up. Must be earthed.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTION

When using, do not eat, drink or smoke.

Respiratory protection

Wear a suitable anti dust mask.

Skin protection

Wear suitable protective clothing and gloves.

Eye protection

Wear eye and face protection.

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE AT 20°C

Solid

COLOUR

Brown

ODOUR

Barely perceptible.

Explosion limits (kg/m3)

35 g - 2000 g

VAPOUR PRESSURE

Negligible.

- Melting zone (°C)

112 - 119

- Initial boiling point (°C)

444

Bulk density at 20°C (kg/m3)

From 850 to 950
This product type is subject to packing

SOLUBILITY IN WATER

Insoluble.

pH value in distilled water

9 +/-0.5 (CIPAC MT 75)

Solubility

Sparingly soluble in most solvents.

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Solubility in		Carbon disulfur
Flash point (ASTM D 93)	(°C)	207
Auto-ignition temperature	(°C)	261

This value can be greatly reduced under specific condition (slow oxidation on finely divided material)

10 STABILITY AND REACTIVITY

Materials to avoid	Avoid contact with strong oxidizers.
On combustion, forms :	Combustion hexaust sulfur derivatives (H ₂ S, SO ₂ ,.....).
Hazardous reactions	Dust / air mixture may ignite or explode.

11 TOXICOLOGICAL INFORMATION

LD50/oral/rat (mg/kg)	> 5000
Inhalation (*)	Not irritant.
Skin contact (*)	Not irritant.
Eyes contact (*)	Not irritant.

12 ECOLOGICAL INFORMATION

Information on ecological effects	Do not dispose of in a sink, drain or in the natural surroundings, according to local regulations.
Persistence and degradability	This product is rapidly degraded in the environment.

13 DISPOSAL CONSIDERATIONS

DISPOSAL OF WASTE	Residue and rinse water must be poured into a 30cm hole 50m away from any water and covered with earth. (only with regulatory permission) After use, empty and clean apparatus on site. Prevent the product from entering natural water, ditches or sewers.
DISPOSAL OF PACKAGING	After use, empty packing must be punctured and destroyed or incinerated.

14 TRANSPORT INFORMATION (*)

- RID/ADR	Not classified.
- ICAO/IATA	Not classified.
- IMO-IMDG code	Not classified.
- UN Nr (Proper shipping name)	Not regulated.

15 REGULATORY INFORMATION

FRANCE	R 36 :Irritating to eyes. REGISTRATION N° 6600251
Symbol(s)	Xi : Irritant
Risk phrases	R 36 :Irritating to eyes.
Safety advice	S 2/7/13/49: Keep the product in the original closed container, away from food, drink, animal feeding stuffs and out of reach of children.

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S 20/21 :When using, do not eat, drink or smoke.

S 36/37/39 :Wear suitable protective clothing, gloves and eyeface protection.

16 OTHER INFORMATION

Recommended uses and restrictions

Comply with practice, dose, conditions and precautions of use mentioned on the label and defined as a function of product properties and treatment recommendations.

Follow good agricultural practices under your responsibility, taking into account weather, soil, crops, etc.

The producer warrants the quality of this product in the original closed packaging, well stored and its conformity with authority agreement during 2 years.

Further information

The information contained herein is, to the best of our knowledge and belief, accurate.

End of document.
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