



## Safety Data Sheet

**Product name :** DROSERA MS 22 Page : 1/6  
SDS n° :34188-32 Version :2.00 Version of :2009-12-15

### PRODUCT LABELS

LABELLING (standard or EU): Not concerned  
R-phrases : None  
S-phrases : None  
TRANSPORT LABELLING: Not applicable.

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING

Name of the product : DROSERA MS 22  
Code No. : 310  
Product application : Oil for machine tools  
Supplier : TOTAL Belgium  
Handelsstraat 93 Rue du Commerce  
B-1040 BRUSSEL - BRUXELLES  
BELGIQUE  
Tel: ++32 (0)2 288 99 33  
Fax: ++32 (0)2 288 32 60  
rm.be-reach-belgium-msds@total.com  
Emergency telephones : sa TOTAL BELGIUM nv : +32 (0) 16.271.261  
Poisons Advice Centre : Tel: + 32 (0) 70.245.245  
Burns Units : Brussel : 02/2686200, Antwerpen : 03/2177595, Gent : 09/2403490, Leuven : 016/348750, Wallonië : 071/448000.

### 2. HAZARDS IDENTIFICATION

The product is not classified as dangerous in accordance with directive 1999/45/EC.

Health effects : This product does not present a danger of intoxication.  
Environmental impact : Do not discharge this product into the environment.  
Physico-chemical hazards : No specific risk of fire or explosion under normal conditions of use

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### PREPARATION

Chemical nature : Petroleum-derived severely refined mineral-base product  
Product containing mineral oil with less than 3 % DMSO extract as measured by IP 346

Substances presenting a health hazard	EC No.	CAS No.	Content	Symbol(s)	R-phrases
Alkyl phosphonate			<0,5 %	Xi ,N	R-38, 41, 51/53
Long chain alkenyl amine			<0,5 %	C ,N	R-22, 35, 50

See section 16 for explanations of R-phrases :

### 4. FIRST AID MEASURES

IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

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**Inhalation :** Inhalation of heavy concentrations of vapour, fumes or spray, may cause mild irritation of the throat.  
Transport the person into fresh air, keep warm and allow to rest.

**Ingestion :** Possible risk of vomiting and diarrhoea.  
Do not induce vomiting to avoid the risk of aspiration into the respiratory tract.  
Give nothing to drink

**Skin contact :** Immediately remove all soiled or stained clothing.  
Wash the affected area immediately and repeatedly with soap and water.

**Eye contact :** Keep eyes open and rinse immediately and repeatedly with water for at least 15 minutes.

**Aspiration :** If the product is believed to have entered the lungs (in case of vomiting, for example), take the person to hospital for immediate care.

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### 5. FIRE FIGHTING MEASURES

Flash point: See heading 9

**Extinguishing media :**

- suitable:  
Foam, carbon dioxide (CO<sub>2</sub>), powder.
- not recommended:  
Do not use water jets (stick jets) for extinguishing fire, as this may help the spread of flames.

**Specific hazards :** Vapours can build explosive mixtures with air.  
Vapours are heavier than air and may spread on the ground to sources of ignition.

**Hazardous combustion products :** Incomplete combustion and thermolysis may produce potentially toxic gases such as carbon monoxide and carbon dioxide.  
However, this potential danger arises only after all the water contained in the product has evaporated due to a fire or accidental spill onto a very hot surface.

**Protective measures for firefighters :** Insulated breathing apparatus must be worn in confined premises with heavy concentrations of fumes and gases.

**Other :** All combustion residues and contaminated water from fire-fighting should be disposed of according to local regulations.

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### 6. ACCIDENTAL RELEASE MEASURES

**Personal protection :** See sections 8 and 13.

**After spillage / leakage :**

- On land:  
Surfaces on which the product has been spilled may become slippery.  
Do not allow the product to enter sewers or rivers or contaminate the soil.  
Recover with mechanical means such as pumps and skimmers.
- On water:  
Floating absorbant material, then mechanical recovery.  
If the product is spilt into rivers or sewers, notify the authorities of the possible presence of surface effluent.

**Spill cleanup methods :**

- Surfaces on which the product has been spilled may become slippery.
- Recovery:  
Use mechanical means such as pumps, skimmers and absorbent materials.  
Contain and collect the spilled product with sand or any other inert absorbent material.
- Elimination:  
Hand over contaminated materials to an approved collector - see also section 13.  
Recover all waste and dispose in compliance with current regulations.

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### 7. HANDLING AND STORAGE

#### HANDLING :

**Prevention of user exposure :** Ventilate extensively if the formation of vapours, fumes, mists or aerosol is a risk.  
Make all the necessary arrangements in order to reduce exposure risk, notably to products in use or to wastes.  
Keep away from combustible substances; keep away from food and beverages.

**Prevention of fire and explosion :** Empty containers may contain flammable or explosive vapours.  
There is a fire hazard associated with rags, paper or any other material used to remove spills which become soaked with product.  
Avoid accumulation of these: they are to be disposed off safely after use.

**Precautions :** Avoid static electricity build up with connection to earth.  
Set up machinery and equipment so as to avoid the risk of accidental spills or splashes onto hot machine parts and electrical contacts (on joint failure, for example).

#### STORAGE :

**Technical measures :** Make the necessary arrangements to prevent water and soil pollution.

**Storage precautions :**

- Suitable:  
Store at ambient temperature, protected against contact with water and moisture, and away from any source of ignition.
- To be avoided:  
Do not store exposed to the elements.

**Incompatible products :** Dangerous reaction with strong oxidizing agents.

**Packaging materials :**

- Recommended:  
Keep in original container if possible.  
Use only hydrocarbon-resistant containers, joints, pipes, etc.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Technical measures :** Use the product in a properly ventilated atmosphere.  
When working on enclosed place (tanks, reservoirs...), make sure that atmosphere is not suffocating and/or wear recommended equipment.

**Occupational exposure limit :**

- . oil mist : 10mg/m<sup>3</sup>, for 15 minutes
- . oil mist : 5mg/m<sup>3</sup>, for 8 hours

**Respiratory protection :** Use respiratory breathing apparatus approved for organic vapours and mists when entering.  
confined areas,  
places that are difficult to ventilate,  
areas where there is a risk of overexposure to vapours.

**Hand protection :** Impermeable hydrocarbon-proof gloves.  
recommended material: nitrile , neoprene.  
The break through times of the same type of glove of different manufacturers can be very different - even if the layer thickness is similar. Therefore the break through times have to be found out from the manufacturer of the protective gloves themselves.  
The demands on the gloves are determined by the conditions in practice (e.g. multiple use, mechanical load, temperature, strength and duration of exposition). Before choosing suitable gloves, it is recommended that the user tests the gloves.

**Eye protection :** Goggles, in case of risk of splashing.

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### Skin and body (other than the hands) protection :

Depending on the requirements, face mask, boots, product resistant clothing, safety shoes (drum handling).  
Long sleeve shirts are recommended.  
Don't wear rings, watches or anything similar which can retain the product and may give rise to skin conditions.

### Hygienic work practices :

Avoid prolonged and repeated contact with the skin, especially with used or waste product  
Immediately remove all soiled or stained clothing.  
If the product comes into contact with the skin, wash the affected area immediately and copiously with soap and water.  
Do not use abrasives, solvents or fuels.  
In case of contact with eyes, wash immediately in copious amounts of water while keeping eyelids spread apart for at least 15 minutes and consult a specialist.  
Do not dry hands with rags that have been contaminated with product.  
Do not put product contaminated rags into workwear pockets.  
Do not eat, drink or smoke whilst handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid  
Colour : Colourless to light yellow.  
Odour : Characteristic.  
Density/specific gravity : 890 - 900 kg/m<sup>3</sup>  
Temperature (°C) 15  
Flash point : > 170 °C OC (Open cup).  
Température d'auto-inflammation : > 250 °C (ASTM E 659-78)  
Partition coefficient (log Pow) : Log Pow > 6  
Temperature (°C) 20  
Viscosity : 20 - 24 mm<sup>2</sup>/s  
Temperature (°C) 40

## 10. STABILITY AND REACTIVITY

Stability : The product is stable at normal storage, handling and use temperatures.  
Conditions to avoid : Heat (temperatures above flash point), sparks, ignition points, flames, static electricity  
No dangerous reactions under normal conditions of use. Refer to Technical data sheet.  
Materials to avoid : Avoid contact with strong oxidizers  
Hazardous decomp. products : Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity / Local effect :  
Inhalation, comments: Not classified according to the criteria of classification in force.  
Inhalation of high concentrations of vapour or aerosols may cause irritation of the upper respiratory tract.  
Skin contact, comments: Not classified according to the criteria of classification in force.

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**Ingestion, comments:** In case of ingestion of small quantities, no important effect observed. in case of ingestion of larger amounts: abdominal pain, diarrhea, ...

### CHRONIC TOXICITY OR LONG-TERM TOXICITY :

**Skin contact :** Characteristic skin affections (oil blisters) may develop following prolonged and repeated exposure through contact with stained clothing

## 12. ECOLOGICAL INFORMATION

**Comments about ecotoxicity :** Experimental data on the finished product are not available.  
It is considered to present a little danger for aquatic life.  
no information available for used product

**Mobility :**

- Air:  
there is a slow loss by evaporation.
- Water:  
Insoluble in water
- Soil:  
Given its physical and chemical characteristics, the product generally shows little mobility in the ground.

**Persistence and degradability :** No experimental information about the finished product.  
The product should offer slow biodegradability

## 13. DISPOSAL CONSIDERATIONS

**Waste disposal :** Dispose of in a safe manner, in accordance with local regulations.  
If need be, collection by an authorised waste contractor and regeneration or incineration at an approved installation.

**Waste class :** Industrial waste number EU  
12 01 07.  
The waste classification is dependant on the composition of the product at the time of disposal.  
The waste classification mentioned here represents only a recommendation. The waste producer is responsible for the correct specification of the waste. The specification of the waste classification should be in arrangement with the authorised waste disposal company.

**Disposal of contaminated packaging :** Proceed in compliance with the prevailing regulations.

## 14. TRANSPORT INFORMATION

Road (ADR) / Rail (RID) :

Transport by barge (ADNR) :

Marine (IMO-IMDG) :

Air (ICAO/IATA) :

## 15. REGULATORY INFORMATION

Not applicable

**Risk phrases :** None

**Safety phrases :** None

**EU directives :** Hazardous preparations directive 1999/45/EC modified (Directive 2001/60/EC).



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### 16. OTHER INFORMATION

This safety data sheet complies with article 31 of the REACH directive 1907/2006/EC

For France, in case of poisoning call the Antipoison Centre (if possible in your area) and/or the SAMU (15), see ORFILA number below -  
Tel : Angers 02.41.48.21.21 - Bordeaux 05.56.96.40.80 - Lille 03.20.44.44.44 - Lyon 04.72.11.69.11 - Marseille 04.91.75.25.25 - Nancy  
03.83.32.36.36 - Paris 01.40.05.48.48 - Rennes 02.99.59.22.22 - Strasbourg 03.88.37.37.37 - Toulouse 05.61.77.74.47

Explanations of R-phrases in section 2 :

R-38 Irritating to skin.

R-41 Risk of serious damage to eye.

R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R-22 Harmful if swallowed.

R-35 Causes severe burns.

R-50 Very toxic to aquatic organisms.

Revision date:

2009-12-15

\* Information revised since the previous version of the SDS :

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This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.