

## Materiel safety data sheet

**TOTAL FLUIDEMATIC SYN**

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Product code: P181-0000004-57

Issue : 1

Date: 24/07/2001

### PRODUCT LABELS

LABELLING (standard or EU) Not applicable  
TRANSPORT LABELLING : Not applicable

### 1. Product and company identification

Commercial name: TOTAL FLUIDEMATIC SYN  
Product application: EP gear oil.  
Company name: TOTALFINAELF Lubrifiants  
Address: 16, rue de la République  
92800 Puteaux  
FRANCE  
Emergency number of the company : 33.(0)1.41.35.40.00  
Fax: 33.(0)1.41.35.84.71  
See local particulars at end of sheet  
Emergency phone numbers :  
\* France : Centre Anti-Poisons - Hôpital Fernand Widal  
200, rue du Faubourg Saint-Denis  
75010 PARIS Cédex 10  
Tel. (1)40.05.48.48  
ORFILA : Anti-poisons center - Tel : 01.45.42.59.59

### 2. Composition / information on ingredients

#### PREPARATION

Chemical nature: The product is made from refined mineral base oils and synthetic oils (Polyalphaolefins).  
in which the polycyclic aromatic hydrocarbons (PCA or PAH) content, measured by IP 346, is  
above 3%  
Substances contributing to hazards : None to our knowledge, in normal use  
Impurities contributing to hazards: None to our knowledge

### 3. Hazard identification

- Adverse human health effects : Under normal conditions of use, the product holds no danger of intoxication  
- Environmental effects : Don't rejeit this product into the environment

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- physical and chemical hazards : No specific risk of fire or explosion under normal conditions of use

### 4. First-aid measures

IN CASE OF SERIOUS MANIFESTATIONS, CALL IN A DOCTOR OR EMERGENCY MEDICAL CARE

Route of exposure :

- 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
- Contact with the skin : Immediately remove all soiled or stained clothing  
Wash the affected area immediately and repeatedly with soap and water.
- Contact with the eyes : Keep eyes open and rinse immediately and repeatedly with water for at least 15 minutes
- 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
- 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

### 5. Fire-fighting measures

- Flash point: See heading 9
- Fire extinguishers:
  - suitable : Foam, carbon dioxide (CO<sub>2</sub>), powder
  - not suitable : do not use water jets (stick jets) for extinguishing fire since they could help to spread the flames.
- Specific hazards: Incomplete combustion and thermolysis produce toxic gases such as CO, CO<sub>2</sub>, various hydrocarbons, aldehydes and soot. These are highly dangerous if inhaled
- Firefighter protection: An insulated breathing apparatus must be worn in confined premises with heavy concentrations of fumes and gases

### 6. Accidental release measures

See also heading 8 and 13

After spillage / leakage

- on soil Surfaces on which the product has been spilled may become slippery  
Avoid discharge of the material in a stream or a sewer or cause ground contamination.  
recovery by physical means  
In the event of a major spill, inform the competent authorities if the situation cannot be brought under control rapidly and efficiently



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- Control parameters:

. Occupational exposure limit

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

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

Personal protective equipment

- Hand protection:

Impermeable hydrocarbon-proof gloves

recommended material: nitrile , neoprene

- Eye protection:

Goggles, in case of splashing

- Skin and body different hand protection:

As required, wear a face mask, hydrocarbon-proof clothing, and safety boots (when handling drums)

Don't wear ring, watch or similar thing which will be able to hold the product and may give rise to some skin diseases

Industrial hygiene

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 repeatedly with soap and water

Use no abrasives, solvents or petroleum spirit

Do not use cloths stained with the product to dry hands

Dont put the product-soaked rags in the pockets of working clothes

Do not eat, drink or smoke while handling the product

## 9. Physical and chemical properties

Appearance:

- Physical state:

Liquid

- Colour:

Red.

Odour:

Characteristic

pH:

Not applicable

Specific temperatures

of change in state

- Flow point:

< -40 °C (ASTM D 97).

Flash point:

> 185 °C (ASTM D 93)

Auto-ignition temperature:

> 250°C (ASTM E 659)

This temperature may be significantly lower under particular conditions (oxidation on high surface areas)

Explosion limits:

The lower flammable limit of oil mist is reached at concentrations in the range of 45 g/m<sup>3</sup>.

Density:

About 866kg/m<sup>3</sup> at 15°C

Solubility:

- in water:

Insoluble and immiscible.

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- in organic solvents:	Soluble in many common solvents
- Viscosity:	Kinematic viscosity at 100 °C : approx 7.4 mm <sup>2</sup> /s. Kinematic viscosity at 40 °C : approx 36 mm <sup>2</sup> /s.
Log P n-octanol / water at 20°C	mineral oil > 6

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### 10. Stability and reactivity

Stability:	The product is stable under normal temperatures of storage, handling and use
Dangerous reactions:	Not dangerous reaction known under normal conditions of use, to refer to the technical notice
- Conditions to avoid:	Heat (temperatures above flash point), sparks, ignition points, flames, static electricity
- Materials to avoid:	Avoid contact with strong oxidizing
Dangerous decomposition products:	Incomplete combustion and thermolysis produce more or less toxic gases such as CO, CO <sub>2</sub> , various hydrocarbons, aldehydes and soot

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### 11. Toxicological information

#### ACUTE TOXICITY/LOCAL EFFECTS

- Inhalation:	Risk is improbable under normal conditions of use Inhalation of important concentration of vapour or aerosols may cause irritation of the upper respiratory tract.
- Contact with the skin:	Risk is improbable under normal conditions of use
- Ingestion:	In case of ingestion of small quantities, no important effect observed. in case of ingestion of larger amounts: abdominal pain, diarrhoea, ...

#### SENSITIZATION

To our knowledge, the product dont induce sensitization

#### CHRONIC TOXICITY OR LONG-TERM

#### TOXICITY

- Contact with the skin:	Characteristic skin affections (oil blisters) may develop following prolonged and repeated exposure through contact with stained clothing
- Carcinogenicity :	this product is not regarded as carcinogenic.

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### 12. Ecological information

Mobility:	
- Air:	there is a slow loss by evaporation.
- Ground:	Given its physical and chemical characteristics, the product generally shows little mobility in the ground
- Water:	The product is insoluble; it spreads on the surface of the water
Persistence and degradability:	Experimental data on the finished product are not available However the constituent "synthetic oil" of the new product is fundamentally biodegradable.

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Ecotoxicity: Some components could not be biodegradable.  
However, the "mineral oil" portion of the virgin product is intrinsically biodegradable  
Particular ingredients may not be biodegradable  
The virgin product is considered to present no danger for land-growing organisms.  
It is considered to present a little danger for aquatic life.  
no information available for used product

## 13. Disposal considerations

Waste disposal : Dispose in a safe manner in accordance with local/national regulations  
If need be, collection by an authorized waste contractor and regeneration or incineration in an approved installation

Used packaging disposal : Conform to the regulation in effect

Industrial waste number EU : 13-02-02 (non-chlorinated engine, gear, lubricating oils)

## 14. Transport information

UN Number : unregulated

Road (ADR) / Rail (RID)/ River (ADNR) Not restricted for transport.

Marine (IMO-IMDG) Not restricted for transport.

Airline (ICAO / IATA) Not restricted for transport

## 15. Regulatory information

EUROPEAN REGULATIONS

\* EC labeling :

- Symbol(s) None

- R Phrase(s) None

- S Phrase(s) None

## 16. Other information

This data sheet conforms to standards defined by directive 93/112/EEC

"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 our knowledge at the date indicated hereabove.

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.

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The information given herein in no way dispenses the user from knowing and applying all provisions regulating his or her 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 fulfill 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."

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**End of document.**

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