

Safety Data Sheet

Commercial name :

TOTAL FLUIDE SYN FE

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SDS N° P181-0000480-71

Version : 1

Date : 26/01/2000

PRODUCT LABEL

LABELLING (standard or EU)

Symbols : None
R phrases : None
S phrases : None
TRANSPORT LABELLING : Not applicable

1. Substance or preparation and company identification

Product name: TOTAL FLUIDE SYN FE
Commercial application: Transmission oil
Supplier:
Company name: TOTAL RAFFINAGE DISTRIBUTION
Address: Tour TOTAL bât.E-24 cours Michelet
92069 PARIS LA DEFENSE 10
FRANCE
Telephone: 01.41.35.40.00
Telex/fax: Telex : 615 700F
Fax : 01.41.35.84.71
Emergency phone numbers in France: -
01.40.37.04.04 / HOPITAL FERNAND WIDAL 200 , rue du faubourg St Denis
75475 PARIS Cédex 10
04.72.11.69.11 / HOPITAL EDOUARD HERRIOT 5, Place d'Arsonval
69437 LYON Cédex 3
- ORFILA (FRANCE) : +33.(1) 45.42.59.59
- BELGIUM : +32.(0) 70/245.245

2. Composition / information on ingredients

PREPARATION

Chemical nature: Petroleum-derived product made from severely refined mineral oils which PCA content measured by IP 346 method is < 3 %, with additives
Ingredients contributing to hazards : None to our knowledge, in normal use
Impurities contributing to hazards: None to our knowledge, in normal use

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3. Hazard identification

Most important hazards :

- Adverse human health effects :

The product contains no eye or skin irritants and is not considered to be allergenic
Under normal conditions of use, the mineral oils used in this product present no risk of serious intoxication

- Environmental effects :

Experiments with similar virgin products indicate little danger for aquatic or land-living organisms and intrinsic biodegradability

However, the discharge of oil and lubricants into the environment is prohibited by law

- physical and chemical hazards :

No specific risk of fire or explosion

Specific hazards :

None to our knowledge

Product classification :

None according to the amended 88/379/EEC directive

Emergency overview :

If the skin is exposed to high-pressure spray, the product may enter the human organism. In all such cases the affected person must be taken to hospital, even if no sign of injury can be detected

4. First-aid measures

IN CASE OF SERIOUS MANIFESTATIONS

CALL IN A DOCTOR OR EMERGENCY MEDICAL CARE

In case of :

- Inhalation :

In case of exposure to heavy concentrations of vapour, fumes or spray, transport the person into fresh air, keep warm and allow to rest

This risk exists only for oils containing a high proportion of very light distillates, or in the case of the formation of mist, or if the product is heated to a high temperature.

In these cases, irritation of the mucous membrane in the mouth and the intestinal tract may be noted

- Contact with the skin :

If the product comes into contact with the skin, wash the affected area immediately and repeatedly with soap and water.

If the skin is exposed to high-pressure spray, the product may enter the human organism. In all such cases the affected person must be taken to hospital, even if no sign of injury can be detected

- Contact with the eyes :

Keep eyes open and rinse immediately and repeatedly with water for at least 15 minutes, and consult a specialist

- Ingestion :

Generally no special treatment is necessary. Do not induce vomiting to avoid the risk of aspiration into the respiratory tract

- 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

Instructions for the doctor:

In case of incidents, treat symptoms as required

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5. Fire-fighting measures

Flash point:	See section 9
Fire extinguishers:	
- suitable:	Foam, CO2, powder
- not suitable:	Water under strong pencil like jet forbidden
Specific hazards:	Incomplete combustion and thermolysis produce toxic gases such as CO, CO2, 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

Precautions for personal protection:	Hydrocarbon-proof clothing, gloves, goggles and boots should be worn, as applicable. Surfaces on which the product has been spilled may become slippery
Precautions for environmental protection:	Plan the installations and take all necessary measures to prevent water and ground pollution Set up sewer protection to reduce the risk of pollution through accidental release In the event of a major spill, inform the competent authorities if the situation cannot be brought under control rapidly and efficiently Protect environmentally sensitive areas and water resources
Clean-up methods:	
- Recovery:	Use mechanical means such as pumps and skimmers Contain and collect the spilled product with sand or any other inert material. Do not discard into drains or sewers
- Disposal:	Remit the soiled material to an authorized waste collector

7. Handling and storage

HANDLING

- Technical measures :	
. prevention of user exposure	Provide adequate ventilation in case of the potential formation of vapour, mist or spray Take all measures to reduce the risk of exposure, particularly to used or waste lubricants Keep away from flammable material; keep away from food and beverages
. Prevention of fire and explosion	Empty containers may contain flammable or explosive vapours Product-impregnated cloths and paper or material used to mop up spills can constitute a fire hazard. Do not allow these to accumulate in a pile Discard these with all safety precautions immediately after use
- Precautions :	Reduce fire hazards by arranging and setting up machinery and equipment so as to : . avoid accidental spills and splashes onto hot machine parts and electrical contacts . prevent oil leaks in pressure circuits resulting in a fine inflammable spray (the flammability limit for oil mist is depressed when concentrations of about 45 g/m3 are reached)

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- Safe handling advice :	Avoid prolonged or repeated skin contact with the product and product-stained clothing, which may lead to skin rashes and eruptions, particularly in case of open cuts or scratches Avoid splashes and spills If the product has been in contact with the skin, wash the affected area immediately and repeatedly with soap and water Use no abrasives, solvents, or petroleum spirits Do not use cloths stained with the product to dry hands If clothing becomes stained, change immediately Do not inhale vapours, fumes or mist Do not eat, drink or smoke while handling the product Avoid contact with strong oxidizing agents Use only hydrocarbon-resistant containers, joints, pipes etc...
STORAGE	
- Technical measures :	Not applicable
- Storage conditions :	
. Suitable	Store at room temperature, protected against contact with water and moisture, and away from any source of ignition Keep containers clearly labelled and closed when not in use Make the necessary arrangements and take all measures to prevent water and ground pollution
. To be avoided	Do not store exposed to the elements
- Incompatible products :	Dangerous reaction with strong oxidizing agents
- Packaging materials :	
. Recommended	Use only hydrocarbon-resistant containers, joints, pipes, etc. Keep in original container if possible Otherwise, transfer all indications on the regulatory label to the new container

8. Exposure controls / personal protection

Engineering measures:	When working on tanks or reservoirs, take all usual precautions
- Control parameters:	
. Threshold values	. Maximum tolerance level for exposure to oil mist : 10mg/m ³ , for 15 minutes . Mean tolerance level for exposure to oil mist : 5mg/m ³ , for 8 hours
Personal protective equipment	
- Hand protection:	Impermeable hydrocarbon-proof gloves
- Eye protection:	Goggles, in case of splashing
- Skin and body protection:	As required, wear a face mask, hydrocarbon-proof clothing, and safety boots (when handling drums)
Industrial hygiene	Avoid prolonged and repeated contact with the skin, especially with used or waste lubricants If the product comes into contact with the skin, wash the affected area immediately and repeatedly with soap and water

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Use no abrasives, solvents or petroleum spirit

If the product comes into contact with the eyes, keep eyes open and rinse immediately and repeatedly with water for at least 15 minutes, and consult a specialist

9. Physical and chemical properties

Appearance:

- Physical state:

Clear liquid

- Colour:

Red

Odour:

Characteristic

Characteristic odour of oil

pH:

Not applicable

Specific temperatures

of change in state

Flash point:

\geq to 150°C (ISO 2592)

Auto-ignition temperature:

$>$ 250°C (ASTM E 659). This temperature may be significantly lower under particular conditions (oxidation on high surface areas)

Explosion limits:

Not applicable

Flammability limit in air:

The flammability limit for oil mist is depressed when concentrations of about 45g/m³ are reached

Vapour pressure:

Negligible at normal temperatures of storage, handling and use

Density:

About 839kg/m³ at 15°C

Solubility:

- in water:

Insoluble and immiscible

- in organic solvents:

Soluble in many common solvents

Other:

- Viscosity:

Kinematic viscosity at 100°C: about 7.5 mm²/s

10. Stability and reactivity

Stability:

The product is stable under normal temperatures of storage, handling and use

Dangerous reactions:

- Conditions to avoid:

Heat (temperatures above flash point), sparks, ignition points, flames, static electricity, ...

- Materials to avoid:

Strong oxidizing agents

Dangerous decomposition products:

Incomplete combustion and thermolysis produce more or less toxic gases such as CO, CO₂, various hydrocarbons, aldehydes and soot

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11. Toxicological information

These indications are based on the toxicological data for product constituents, evaluated in accordance with current regulations

ACUTE TOXICITY

- Inhalation: Risk is improbable under normal conditions of use
- Contact with the skin: Harmless
- Ingestion: Harmless

LOCAL EFFECTS

- Inhalation: Strong concentrations of vapour and spray may be irritating for the respiratory tract and for mucous membranes
- Contact with the skin: Not irritating
- Contact with the eyes: Not irritating

SENSITIZATION

- Contact with the skin: Not allergenic

CHRONIC TOXICITY OR LONG-TERM

TOXICITY

- Inhalation: Vapours and aerosol can irritate the respiratory tract and mucous membranes
- Contact with the skin: Characteristic skin affections (oil blisters) may develop following prolonged and repeated exposure through contact with stained clothing

SPECIFIC EFFECTS

- Carcinogenicity :
The product is formulated from ingredients considered to be non-carcinogenic
Not carcinogenic
This product is formulated from refined bases and other ingredients considered to be non-carcinogenic

12. Ecological information

Mobility:

- 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

. The "mineral oil" portion of the virgin product is intrinsically biodegradable

Ecotoxicity:

The virgin product is considered to present no danger for land-growing organisms and little danger for aquatic life. No data are currently available for the used product

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13. Disposal considerations

Waste:

- Disposal: . The only method authorized in France is collection by an authorized waste contractor and regeneration or incineration in an approved installation

Used packaging:

- Disposal methods: . Transmit to an authorized waste contractor for disposal

Local regulations:

. Regulation concerning the discharge of oil and lubricants into surface, underground and sea waters: decrees N° 73-218 of 23.02.1973 and N° 77-254 of 08.03.1977, circulars of 14.01.1977 and 04.11.1980
. Regulation concerning waste: law N° 75-633 of 15.07.1975 and decree N° 77-974 of 19.08.1977, decree N° 79-981 of 21.11.1979 amended by decrees N° 85-387 of 29.03.1985, N° 89-192 of 24.03.1989 and N° 89-648 of 31.08.1989, regulating the recovery of used oils
Law N° 88-1261 of 30.12.1988; decree N° 90-267 of 23.03.1990 concerning the import, export and transit of hazardous waste;
Law N° 92-646 of 13.07.1992 concerning the disposal of waste and the recycling of waste materials

14. Transport information

INTERNATIONAL REGULATIONS

- by land (railroad/road): Not applicable

- by sea: Not applicable

- by air: Not applicable

- UN classification number: Not applicable

OTHER REGULATIONS

- French regulations:

. by land : Not applicable

15. Regulatory information

EUROPEAN REGULATIONS

- EC labelling

. Symbols None

. R Phrases None

. S Phrases None

FRENCH REGULATIONS

- Social Security code : Table of occupational illnesses and diseases: N° 36 - 84

. Art. L.461-6, Art. D.461-1, Appendix A, N° 607

- Labour code : . Art. R.241-50, Order of 11.07.1977

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16. Other information

Date of current version:

26/01/2000

Supersedes previous Safety Data Sheet of:

"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.

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."

End of document.

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