



PRODUCT SAFETY DATA SHEET

Product :

AGIP FORK 7,5W

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Product code : 1426

Version : 2

Date : 16/01/2007

Supersedes SDS dated : 11/01/2002

1. Identification of the substance/preparation and of the company

Identification of the substance or

preparation:

AGIP FORK 7,5W

Type of product and use:

Hydraulic oil

Company identification:

ENI S.p.A. - Refining & Marketing Division

Address and telephone Nr.:

Via Laurentina, 449 - 00142 ROMA ITALY
TEL. (+ 39) 06-59881 FAX (+ 39) 06-59885700

2. Composition/information on ingredients.

Components:

Paraffinic base stock, severely solvent refined (64 %wt min.) - CAS 101316-72-7
Paraffinic base stock, severely solvent refined (32 %wt min.) - CAS 64741-89-5
Additives

Hazardous component(s):

None to be reported, according to the present EU regulations.

Other information:

All the mineral base oils contained in this product have a value < 3 % wt of DMSO extract, according to IP 346/92 (note L - Dir. 94/69/CE)

3. Hazards identification.

3.0 General informations:

Classification of the product:

The product is not classified as dangerous according to the criteria set by the European Union.

3.1 Physical-chemical dangers:

Important hazards:

Product with a low risk of fire. It can create flammable mixtures or burn only if heated at temperatures which are higher than normal ambient levels.

3.2 Dangers for human health:

Skin contact:

Prolonged and repeated skin contact, especially if hygiene practices are poor, may cause reddening, irritation and dermatitis, due to a defatting effect.

Eye contact:

Contact with eyes may cause reddening and irritation.

Ingestion:

Accidental ingestion of small quantities of the product may cause nausea, discomfort and gastric disturbances. Taking into account the taste and smell of the product, however, ingestion of dangerous quantities is very unlikely.

Inhalation:

This product has a low vapour pressure, and in normal conditions at ambient temperature the concentration in the air is negligible. A significant concentration may build up only if the product is used at high temperature, or in case of sprays and mists.
In these cases overexposure to vapours (e.g. through prolonged use in confined insufficiently ventilated spaces) may cause irritation to airways, nausea and dizziness.

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Aspiration of liquid into the lungs:

The aspiration of small amounts of petroleum substances into the lungs may cause a chemical pneumonia. Taking into account the characteristics of the product, however, this possibility is unlikely.

Other information:

Any substance, in case of accidents involving pressurized circuits and the like, may be accidentally injected under the skin, even without external damage. In such a case, the victim should be brought to an hospital as soon as possible, to get specialized medical treatment.

3.3 Environmental hazards:

Important hazards:

This product is not classified as dangerous to the environment, according to the criteria set by the EU.

4. First aid measures.

Skin contact:

Take off contaminated clothing and shoes. Wash thoroughly with soap and water. If inflammation or irritation persists, seek medical advice.

Eye contact:

Rinse eyes thoroughly for at least 10 minutes. Keep eyelids well apart. If irritation persists, seek medical advice.

Ingestion:

Do not induce vomiting to avoid aspiration into the lungs. If the person is conscious, rinse mouth with water without swallowing. Keep at rest. Call for medical assistance or bring to an hospital.

Inhalation:

In case of disturbances owing to an exposure to a high concentration of vapours or mists, remove the victim from exposure; keep at rest; if necessary, seek medical attention.

Aspiration of liquid into the lungs:

If there is the possibility that the product has been aspired into the lungs (i.e. in case of spontaneous vomiting), transport the victim to a hospital.

5. Fire-fighting measures.

General information:

Shut off source of product, if possible.
If possible, move containers and drums away from danger area.

Extinguishing media:

- Suitable:

Small-size fires: carbon dioxide, dry chemicals, foam, sand or earth.
Large fires: foam or water fog (mist). These means should be used by trained personnel only.

- Not to be used:

Do not use water jets. They could cause splattering, and spread the fire.

Special protective equipment for firefighters:

Personal protection equipment.
Self-contained breathing apparatus

Useful precautions:

Avoid accidental sprays on hot surfaces or electrical contacts.
In case of losses from pressurized circuits, the sprays may form mists. Take into account that in this case the lower explosion limit for mists is about 45 g/m³ air.

Other information:

Use water sprays to cool the surfaces exposed to the flames.
Spilled product which is not burning should be covered with sand or foam
In case of fire, do not discharge runoff water: collect separately and use a proper treatment.

6. Accidental release measures.

General measures:

Shut off source of spill, if possible.
Eliminate sources of ignition.

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Personal precautions:	Do not let the product flow into sewers, water courses or underground spaces. Notify local authorities according to relevant regulations.
Methods for cleaning up:	See Sect. 8 of this sheet.
- Soil:	Contain spilled liquid with sand, earth or other suitable absorbents. Recover free liquid and waste materials in suitable waterproof and oil-resistant containers. Clean contaminated area. Dispose of according to local regulations.
- Water:	Confine the spillage. Remove from surface by skimming or suitable absorbents. Collect recovered product and other waste materials in suitable waterproof, oil resistant containers. Recover or dispose of according to local regulations. Do not use solvents or dispersants.

7. Handling and storage.

Storage:	Keep away from sources of ignition. Storage temperature: ambient to 55°C max . Store in a well ventilated place.
Handling:	Store the product in cool, well ventilated surroundings Avoid proximity or contact with hot surfaces, flames or sparks. Avoid contact with skin Do not breathe vapours or mists. Do not smoke. Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been cleaned, and declared safe.

8. Exposure controls/personal protection.

General indications:	This product has a low vapour pressure, and in normal conditions at ambient temperature the concentration in the air is negligible. A significant concentration may build up only if the product is used at high temperature, or in case of sprays and mists. Avoid the creation of mists or vapours. Aspirators in case of oil mist; protective shields, in case of oil splashes.
8.1 Exposure limit values	
Exposure limits:	For the control of exposure to the product, the most relevant exposure limits are listed here. TLV-TWA (A.C.G.I.H. 2006): 5 mg/m ³ (mineral oil mists) TLV-STEL (A.C.G.I.H. 2006): 10 mg/m ³ (mineral oil mists) If necessary, take into account the other limits listed in the relevant workplace regulations, or in the ACGIH documents.
Monitoring procedures:	Refer to relevant legislation and in any case to the good practice of industrial hygiene.
8.2 Control of exposure	
General informations:	In case the concentration of the product or any constituent is above the exposure limits, and if plant characteristics, work procedures and other means are not able to reach the purpose, it is necessary to use suitable means of personal protection.
Respiratory protection:	Open or well ventilated areas: not necessary. Closed or confined areas (e.g. tank interiors): self-contained breathing apparatus.

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Personal protection:

Long-sleeved overalls. If necessary, refer to the EN 465-466-467 standards
When there is a risk of contact with the eyes, use safety goggles or other means of protection. If necessary, refer to national standards or to the EN 166 standard.
When there is a risk of contact with the skin, use hydrocarbon-resistant, felt-lined gloves.
Experience shows that gloves made of Nitrile rubber or PVA (Polyvinylalcohol) are adequate for this use.
Gloves made of PVC can be used for limited periods.
Gloves made of Neoprene or natural rubber (latex) have inadequate resistance.
Use gloves respecting all the conditions and within the limits set by the manufacturer.
Replace gloves immediately in case of cuts, holes or other signs of damages or degradation.
If necessary, refer to the EN 374 standard.

Hygiene measures:

Avoid contact with skin and eyes
Do not breathe vapours or mists.
Do not clean hands with dirty or oil-soaked rags.
Do not keep dirty rags in the overall pockets.
Do not drink, eat or smoke with dirty hands.
Wash hands with water and soap, do not use solvents or other irritant products which have a defatting effect on the skin.
Do not re-use clothes, if they are still contaminated.

9. Physical and chemical properties (typical values).

Appearance:	Liquid, bright & clear (ASTM D 4176/1).
Odour:	Characteristic.
Colour	Not determined (ASTM D 1500)
Density a 15°C:	865 kg/m ³ (ASTM D 1298).
Boiling point/range:	> 200 °C (at 10 mmHg) (ASTM D 1160)
Vapour pressure:	1·10 ⁻³ hPa (20 °C)
Viscosity at 40°C:	31.5 mm ² /s (ASTM D 445).
Solubility in water:	Insoluble in water
pH :	Not applicable (ASTM D 1287).
Pour point:	-30 °C. (ASTM D 97)
Flash point :	210 °C. (ASTM D 92)
Auto-ignition temperature:	> 300 °C (DIN 51794)
Explosion limits:	
- Lower:	Not determined.
- Upper:	Not determined.
Partition coefficient (P o/w):	Not determined.
DMSO extract of base stock:	< 3 % wt (IP 346/92)

10. Stability and reactivity.

Thermal decomposition products:	COx, HC, SOx, NOx.
Stability:	Stable product.
Hazardous reactions:	None

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Materials to avoid:

Strong oxidants

11. Toxicological information.

Oral toxicity (rat):	LD50 greater than 2000 mg/kg (estimated from the composition)
Dermal toxicity (rabbit):	LD50 greater than 2000 mg/kg (estimated from the composition)
Inhalation toxicity (rat):	LC50 greater than 5 mg/l/4h (estimated from the composition)
Skin sensitization:	This product does not contain any significant amounts of substances classified as sensitizers (in any case < 0.1 % wt) (Refers to active component).
Other information:	* Not irritating to eyes and skin * Minor irritation may occur after prolonged or repeated contact, especially if normal hygienic rules are not respected. * None of the components of this product are listed as carcinogen by NTP, IARC, OSHA, EU or others.

12. Ecological information.

General informations:	Handle according to general working hygiene practices to avoid pollution and release into the environment.
Biodegradation:	The most significant constituents of the product should be considered as "inherently biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions.
Toxicity for aquatic organisms:	This product is not soluble in water. It floats on water and forms a film on the surface. The damage to aquatic organisms is of mechanical kind (immobilization and entrapment) No specific environmental data are available for this product. According to the components, and by comparison with other products of the same type and composition, it is expected that this product has a toxicity for aquatic organisms > 100 mg/l, and must not be regarded as dangerous to the environment.
Other data:	This product has no specific properties for inhibition of bacterial activity. In any case, wastewater containing this product should be treated in plants that are suited for the specific purpose.
WGK class (Germany):	1

13. Disposal considerations.

Disposal of product:	Do not dispose of the product, either new or used, by discharging into sewers, tunnels, lakes or water courses. Deliver to a qualified official collector.
European Waste Catalogue Code:	13 01 10 (Ref: 2001/118/CE) This code is only a general indication, and takes into account the original composition of the product and its intended use. The user has the responsibility of choosing the right code, considering the actual use of the product, alterations and contaminations.
Disposal of packaging:	Dispose of in a safe manner, in accordance with local regulations. Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been cleaned, and declared safe.

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14. Transport information.

Transport hazard label:	None.
Substance identification number. (UN Nr.):	Not applicable.
RID/ADR:	Does not belong to any class of danger.
ICAO/IATA:	Does not belong to any class of danger.
IMO-IMDG code:	Does not belong to any class of danger.

15. Regulatory information.

EU labelling information:	Not classified under this legislation.
Applicable laws and regulations:	National laws on classification and labeling of dangerous substances/preparations (Adoption of Directive 67/548/CE and subsequent Adaptations to Technical Progress - ATP, and Directive 1999/45/CE). Relevant national laws on health and safety on the workplace. National adoption of Directives 89/391/CEE, 89/654/CEE, 89/655/CEE, 89/656/CEE, 90/269/CEE, 90/270/CEE, 90/394/CEE, 90/679/CEE, 93/88/CEE, 95/63/CE, 97/42/CE, 98/24/CE, 99/38/CE, 99/92/CE, 2001/45/CE, 2003/10/CE, 2003/18/CE. National adoption of Directive 75/439/CEE concerning disposal of used oils. Relevant national laws on recycling and re-use of waste materials. Relevant national laws on prevention of water pollution.

16. Other information.

General indications:	Avoid excessive or improper use.
Other uses of the product:	Do not use the product for any purposes that have not been advised by the manufacturer. In that case, the user could be exposed to unforeseeable dangers.
Document references:	This Safety Data Sheets conforms to the dispositions of Directive 2001/58/CE
Text of R-phrases:	Complete text of the R-phrases quoted in this Safety Sheet. These phrases are reported here for information only, and MAY NOT correspond to the classification of the product. None.
Nature of revision:	Adaption to new regulation: 2001/58/CE Correction in Section: 1.

This information relates only to the specific product and may not be valid if the product is used in combination with any other material or in any process.

The informations in this sheet are according to our best knowledge at the date of printing.

This Safety Data Sheet has been checked and printed on 16/01/2007.

End of document.

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