



### Conforming to the new rules for the reduction of VOC emissions

Ministry decree of 30 April 2002 No 2002-680 published in the Official Gazette of 2 May 2002 stipulating:

All the industries carrying out cleaning, degreasing and surface stripping (metals, plastics, etc.), in an open machine with processes using organo-halogenated liquids or organic solvents and of which the treatment tank volume is greater than 20 liters and less than 1,500 liters must be reported to the Prefecture of their Department.

For volumes greater than 1,500 liters, it will be necessary to have the Prefecture perform a prior Risk Survey (R1) which will be refused if the company is within a 1 kilometer radius of a public place.

#### Solvent storage:

- Each recipient must be properly labeled (the label must be reproduced each time the contents are split)
- The premises must be cool and efficiently ventilated, protected from any source of heat or ignition (beams of sunlight, flames, sparks, etc.)
- The floor must be fireproof, waterproof and form a retention basin so that in the event of accidental spillage, the liquid cannot spread out
- The electric equipment used must be adapted to the explosion hazard: it must be kept in conformity with the regulations
- Fire extinguishers, a shower and a safety eyewash must be installed nearby
- The corridors must be wide enough to allow the passage of people and/or handling machines
- Emergency exits must be kept clear and properly posted.

#### Solvent storage:

- People using solvents (and people working nearby) must be informed of the risks these products represent, of the precautions to be observed and of the steps to be taken in the event of an accident (cf. FDS)
- Never transfer a solvent into a recipient that has contained another chemical
- Avoid inhaling the vapors
- Avoid dumping to the drain
- Do not apply pressure to the walls of the packings and do not attempt to roll full drums
- Minimise losses due to evaporation (open packages, etc.)
- Wash your hands frequently with mild soap, especially before eating or drinking
- Never wash your hands with a solvent
- Do not drink, eat or smoke in rooms where the solvents are used
- In the event of leakage or accidental spillage, mop up the product immediately, first covering it with inert absorbent material (sawdust, etc.) of which a store is kept nearby.

#### Management of used solvents:

Used solvents must be stored while following the same prescriptions as for new products.  
 If they contain less than 30% impurities, the solvents may be recycled. Solvents that cannot be recycled and the sludges derived from regeneration installations must be incinerated in specialized centers.  
 For any additional information about dumping, recycling and the incineration of solvents, consult the site of l'Agence de l'Environnement et de la Maitrise de l'Energie (Ademe).

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# TOTAL FINASOL FPI

## Food certified cleaning degreaser NSF homologated

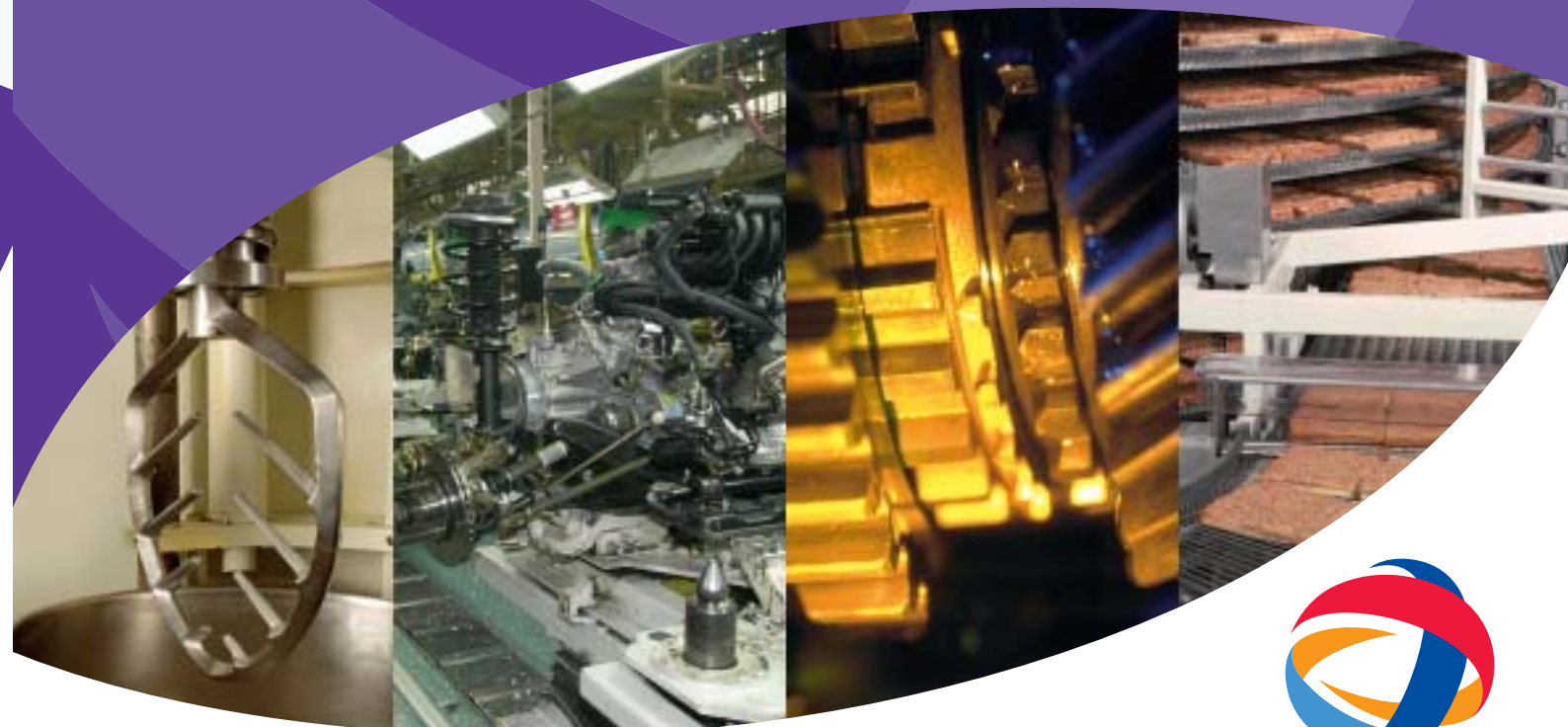


- Agrofood industries
- Mechanical construction
- Maintenance workshops
- Automobile construction
- Equipment makers
- Aeronautics
- Air and space

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# TOTAL

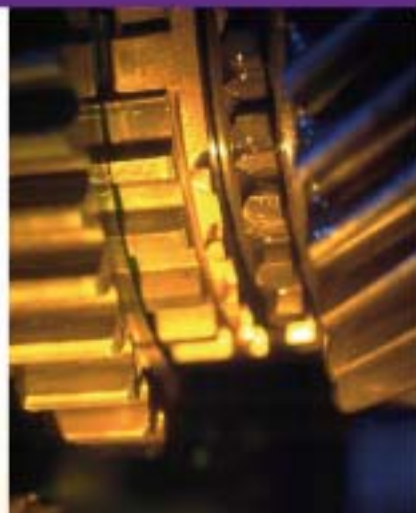


# TOTAL



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Food certified  
cleaning degreaser  
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## APPLICATIONS

### Cleaning/Degreasing

- Elimination of greases, oils, stains, soiling, sludge
- Degreasing of mechanical parts, bearings, machined parts
- Degreasing of machine-tool frames and chassis
- Cleaning and degreasing of chains and machines
- Cleaning of bearings, drive gears and filters

### Application fields

- Agrofood industries
- Mechanical construction
- Maintenance workshops
- Automobile industry
- Equipment makers
- Aeronautics
- Air and space



Use in food industries, certified:  
Conforming to the US FDA regulation, standards CFR 21 TOTAL FINASOL CFR is totally devoid of glycol ether as referred to by the decision of 24 August 1999, published in the Official Gazette No 202 of 1st September 1999, in conformity with the Public Health Code, articles L 511-1, L 513 and L 793-5, and in conformity with the ruling of 7 August 1997, relative to the limits on the marketing and use of hazardous substances.

## PROPERTIES

- Synthetic hydrocarbon offering a total guarantee of not containing benzene and aromatic elements, compared to conventional hydrotreated hydrocarbons.
- This results in two essential functions in research into toxicological and environmental improvements:
  - The absence of any odor allowing its use in many areas where the organoleptic properties of a solvent have a direct influence on production, the ambience, and the working conditions.
  - VOC factor 20% lower compared to hydrocarbons: Therefore, its use makes it possible to establish a first approach toward decreasing VOC emissions.
- Compatible with all metals, including coated or precious metals. Does not generate any corrosion. May also be used on most thermoplastics and heat-setting plastics not sensitive to organic solvents as well as on composite materials. No effect on glass and ceramics.
- Offers excellent solvent capabilities on most greases and oils. Its Kauri Butanol index is higher than that of hydrocarbon type solvents, achieving a maximum of 33.
- Totally stable, without any risk of hydrolysis.
- Excellent evaporation rate.
- May be used in many applications thanks to its very low freezing point and very high self-ignition point.
- May be used neat, cold, for any manual process. Applied by cloth, pad or brush. In fountains. By immersion. Suitable for ultrasound machines.



Packaging:  
• Drums of 200 L  
• Barrels of 25 L

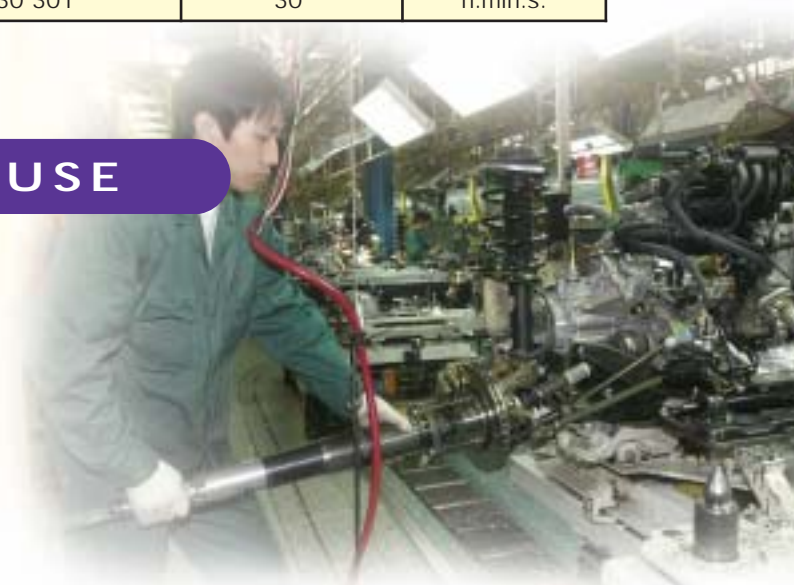


## CHARACTERISTICS

TOTAL FINASOL FPI	Standard	Values	Unit
Acidity	ASTM D 847	0.0	% weight
Corrosion of copper strip, 100 h at 40°C	NF M 07 015, ASTM D 130	1a	Grading
Distillation, initial point	NF M 07 002, ASTM D 86	175	°C
Distillation, final point	NF M 07 002, ASTM D 86	190	°C
Physical condition	Visual	Fluid	
Water solubility		Insoluble	ppm
KB index, solvent capability (estimation)	ASTM D 1133	45	
Refraction index at 20°C	ASTM D 1218	1.4150	
Density at 25°C	NF EN ISO 12 185	742	Kg/m <sup>3</sup>
ODP Ozone Depletion Potential		0	Factor
Odor	Olfactory	None, odorless	
Closed recipient flash point	ISO 2719	47	°C
Self-ignition point	ASTM E 659	> 230	°C
Chlorine content	GCMS	0	ppm
Surface tension at 25°C	ISO 6295	24	dynes/cm
Evaporation rate	NF T 30 301	30'	h.min.s.

## PRECAUTIONS FOR USE

Before using, it is mandatory to refer to the Safety Data Sheet. Eliminate any source of ignition when using the product, and more particularly, do not use on an incandescent body or on a source of high heat. Do not use in the vapor phase. Avoid splashing onto fabrics to prevent wick effects. No smoking. Do not dump to drain after use. Use in airy or ventilated room.



## RECOMMENDATIONS

Because of the diversity of substrates and especially thermoplastics or heat-setting materials used in the industry, we advise operators to perform all possible compatibility tests on sensitive materials to be washed or degreased. These compatibilities often depend on procedures and therefore on the contact times that may exist between the solvent and the plastic materials.



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