

## Safety Data Sheet

**Product name :** GEMSEAL 25 Page : 1/5  
SDS n° :30039-33 Version :3.00  
This sheet supersedes the one dated :2015-10-18

### PRODUCT LABELS

**LABELLING (standard or EU):** Concerned  
EC No : 265-148-2

**Symbol(s) :**



**Symbol(s) :** Xn Harmful  
**Contains :** Distillates (petroleum) hydrotreated middle  
**R-phrases :** R-65 Harmful: may cause lung damage if swallowed.  
**S-phrases :** S-62 If swallowed, do not induce vomiting: seek medical advice immediately and show the container or label.  
**TRANSPORT LABELLING:** Not applicable.

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

**Name of the product :** GEMSEAL 25  
**Synonyms, trade names :** INCI : C13-C15 Alkane (CTFA File N°2687)  
**Product application :** Liquid paraffin  
**Supplier :** TOTAL FLUIDES  
51, Esplanade du Général de Gaulle  
92907 Paris La Défense Cédex  
**Contact :**  
See local details at end of sheet :

### 2. HAZARDS IDENTIFICATION

**Health effects :** If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions.  
**Environmental impact :** Experiments with similar products indicate no serious harmful effects on aquatic or land-living organisms and intrinsic biodegradability.  
**Physico-chemical hazards :** No specific risk of fire or explosion.  
**Product classification :** Harmful: may cause lung damage if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### SUBSTANCE

**Chemical nature :** Distillates (Petroleum), hydrotreated middle

Substances presenting a health hazard	EC No.	CAS No.	Content	Symbol(s)	R-phrases
Distillates (petroleum) hydrotreated middle	265-148-2	64742-46-7	100 %	Xn	R-65



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See section 16 for explanations of R-phrases :

Composition comments :

Notes H and N (directive 67/548/EEC, annex I) apply

### 4. FIRST AID MEASURES

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

Inhalation :

Remove to fresh air.

- Symptoms :

Irritation of the respiratory system.

At high concentrations: Narcosis.

Ingestion :

Do not induce vomiting to avoid the risk of aspiration into the respiratory tract.

Get medical attention immediately!

- Symptoms :

Nausea, vomiting, abdominal pains.

In the event of ingestion with bronchial inhalation : Pneumonopathy with respiratory distress.

Skin contact :

Rinse with water.

Immediately remove all soiled or stained clothing.

Eye contact :

Rinse the eyes with sterile water.

- Symptoms :

Burning feeling and temporary redness.

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 - "Physical and chemical properties"

Extinguishing media :

- suitable: Foam, CO<sub>2</sub>, powder

- not recommended: Water jet.

Specific fire-fighting methods :

Cool any containers exposed to fire, with water spray.

Specific hazards :

Vapours are heavier than air and may spread on the ground to sources of ignition.

Vapours can build explosive mixtures with air.

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled.

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.

### 6. ACCIDENTAL RELEASE MEASURES

Personal protection :

Ensure good ventilation. Hydrocarbon-proof gloves, goggles, boots, and clothing should be worn, as applicable to risks of exposure.

After spillage / leakage :

Stop the leak by turning off the valve. Contain the spilled product. Do not allow the product to enter sewers or rivers or contaminate the soil.

Contact the competent authorities if the situation cannot be brought under control rapidly and efficiently.



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Spill cleanup methods :

- Recovery:  
Contain and collect the spilled product with sand or any other inert absorbent material. Preserve the waste in closed and sealed recipients.  
- Elimination:  
Hand over contaminated materials to an approved collector - see also section 13.  
Flush area with flooding amounts of water.

Prevention of secondary risks :

Remove all sources of ignition.

### 7. HANDLING AND STORAGE

HANDLING :

Prevention of user exposure :

Ventilate extensively if the formation of vapours, fumes, mists or aerosol is a risk.

Prevention of fire and explosion :

Handle away from any source of ignition (open flame and sparks) and heat (hot manifolds or casings). Do not smoke.  
Make provision for water network to avoid any spread of fire.

Precautions :

Avoid extended and repeated contact with the skin as this may cause skin conditions.  
Avoid breathing in vapours, fumes or mists.  
Do not spray at high pressure (> 3 bar).  
Do not eat or drink or smoke during use.

STORAGE :

Technical measures :

Prevent any build-up of static electricity.

Storage precautions :

- Suitable:  
Keep away from heat.  
Containers and equipments must be earthed in order to prevent sparks due to static electricity.  
Use only hydrocarbon resistant containers, joints, pipe-lines...  
Keep containers closed when not in use

Packaging materials :

- Recommended:  
Steel, stainless steel

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The personal protective equipment (PPE) recommendations apply to the product ITSELF. In case of mixtures or formulations, it is suggested that you contact the relevant PPE suppliers.

Technical measures :

Use this product in a well-ventilated atmosphere with explosion-proof equipment.

Occupational exposure limit :

For exposure to oil mist, a mean exposure value of 5 mg/m<sup>3</sup> is recommended (TLV-TWA).

Respiratory protection :

In case of risk of exposure exceeding the mean exposure value, an appropriate breathing apparatus must be worn by each individual.  
When using a mask or half-mask : Organic vapour cartridge, type A (if vapour inhalation is a risk)  
In case of vapours or sprays formation: Combined gas cartridge (organic gases and dust, filter A/P2).  
Be aware that filter protection time is limited.



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Hand protection :

Liquid proof aliphatic solvent resisting gloves :

Recommended materials:

- In case of splashes or limited contact :

Polychloroprene. Thickness > 0.7 mm - Permeation time according to EN 374-3 : > 60 minutes

Nitrile. Thickness > 0.3 mm Permeation time according to EN 374-3 : > 60 minutes

- In case of prolonged or repeated contact :

Nitrile. Thickness > 0.45 mm - Permeation time according to EN 374-3 : > 480 minutes

Fluoro polymer and PVA - any thickness. Permeation time according to EN 374-3 : > 480 minutes

For more precise details about the choice of appropriate protective glove, please contact the manufacturer.

Eye protection :

Goggles, in case of risk of splashing.

Skin and body (other than the hands) protection :

Appropriate protective clothing.

Hygienic work practices :

Avoid prolonged and repeated contact with the skin. Do not eat, drink or smoke whilst handling the product.

Do not dry hands with rags that have been contaminated with product.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :

Liquid at 20°C

Colour :

Colourless.

Odour :

Barely perceptible

Density/specific gravity :

805 - 820 kg/m<sup>3</sup>  
Temperature (°C) 15

Flash point :

≥ 101 °C (ISO 2719)

Température d'auto-inflammation :

> 230 °C (ASTM E 659)

Flammability limit - lower(%) :

1

Flammability limit - upper(%) :

6

Temperatures at phase change :

Distillation range: 230-270 °C (ISO 3405)  
Pour point: - 50 °C (ISO 3016)

Vapour pressure :

0,02 hPa  
Temperature (°C) 20

Solubility :

- in water : Slightly soluble. < 1 mg/l  
- in organic solvents : Soluble in many common solvents.

Viscosity :

2 - 2.7 mm<sup>2</sup>/s (ISO 3104)  
Temperature (°C) 40

Further information :

- pH: not applicable

### 10. STABILITY AND REACTIVITY

Stability :

The product is stable at normal storage, handling and use temperatures.

Materials to avoid :

Strong acids and oxidising agents

Hazardous decomp. products :

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.



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### 11. TOXICOLOGICAL INFORMATION

Acute toxicity / Local effect :

Inhalation, comments:

Non-classified  
Strong concentrations of vapour and spray may be irritating for the respiratory tract and mucous membranes.

Skin contact :

LD50 (Rabbit) > 2000 mg/kg (CONCAWE)

Skin contact, comments:

By analogy: Not irritating. Not classified.

Eye contact, comments:

By analogy : Non irritating. Not classified.

Ingestion :

LD50(Rat) > 2000 mg/kg (CONCAWE)

Ingestion, comments:

Harmful: If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey for 48 hours min).

CHRONIC TOXICITY OR LONG-TERM TOXICITY :

### 12. ECOLOGICAL INFORMATION

Ecotoxicity :

Acute toxicity. LC50 96 hours fish > 100 mg/l  
Acute toxicity. LC50 algae > 100 mg/l

Mobility :

- Land:  
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

Bioaccumulation :

Bioaccumulable

Persistence and degradability :

Readily biodegradable.  
Hard to recover from the aquatic environment because of the fractions > 250°C.

### 13. DISPOSAL CONSIDERATIONS

Waste disposal :

Prevent from entering sewers or the immediate environment.  
- Relevant disposal method:  
The only method authorized is collection by an authorized waste contractor and regeneration or incineration in an approved installation.

Disposal of contaminated packaging :

- Relevant disposal method:  
Disposal via an authorised waste contractor.

National regulations :

Storage of liquid hydrocarbons : decree of 09.11.1972 (Journal Officiel of 31.12.1972); decree of 19.11.1975 (JO of 23.01.1976); circular of 04.12.1975 (JO of 23.01.1976).  
When cleaning tanks, the disposal of sludge is to be carried out in compliance with regulations concerning waste : law N° 75-633 of 15.07.1975 (JO of 16.07.1975), amended law N° 76-663 of 19.07.1976 (regulated facilities).  
Decree N° 77-974 of 19.08.1977 (JO of 28.08.1977) Decree of 01.03.1993 concerning waste (JO of 28.03.1993) Waste classification: Decree 2002-540 of April 18, 2002.