

## Safety Data Sheet

Product name :

OSYRIS HLS 4

Page : 1/8

SDS n° :31439-33

Version :4.01

Version of : 2008-11-09

This sheet supersedes the one dated : 2003-08-22

### PRODUCT LABELS

LABELLING (standard or EU):

Concerned

Symbol(s) :



Symbol(s) :

Xn Harmful N Dangerous for the environment.

Contains :

Naphtha (petroleum), hydrodesulfurized heavy

R-phrases :

R-10 Flammable.  
R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R-65 Harmful: may cause lung damage if swallowed.  
R-66 Repeated exposure may cause skin dryness or cracking.  
R-67 Vapours may cause drowsiness and dizziness.

S-phrases :

S-16 Keep away from sources of ignition - No Smoking.  
S-23 Do not breathe gas/vapour/aerosol mist.  
S-24/25 Avoid contact with skin and eyes.  
S-61 Avoid release to the environment. Refer to special instructions/Safety Data Sheets.  
S-62 If swallowed, do not induce vomiting: seek medical advice immediately and show the container or label.

TRANSPORT LABELLING:

Applicable (see section 14)

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

Name of the product :

OSYRIS HLS 4

Code No. :

673

Product application :

Protective product

Supplier :

TOTAL LUBRIFIANTS  
562 avenue du Parc de l'Île  
92029 Nanterre CEDEX  
Tel: +33 (0)1 41 35 40 00  
Fax: +33 (0)1 41 35 84 71  
rm.msds-lubs@total.com

Emergency telephones :

ORFILA / Tel : 01.45.42.59.59

See local details at end of sheet :

### 2. HAZARDS IDENTIFICATION

Health effects :

May cause lung damage if swallowed ( if viscosity < 7 mm<sup>2</sup>/s at 40°C).  
Repeated exposure may cause rashes or more serious skin conditions.  
This product does not present a danger of intoxication.

Environmental impact :

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
Do not discharge this product into the environment.

Physico-chemical hazards :

Flammable.

## Safety Data Sheet

Product name :

OSYRIS HLS 4

Page : 2/8

SDS n° :31439-33

Version :4.01

Version of : 2008-11-09

This sheet supersedes the one dated : 2003-08-22

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### PREPARATION

Chemical nature : Product with solvent base

Substances presenting a health hazard	EC No.	CAS No.	Content	Symbol(s)	R-phrases
2-butoxy-ethandiol	203-905-0	111-76-2	<12,5 %	Xn	R-20/21/22, 36/38
Naphtha (petroleum), hydrodesulfurized heavy	265-185-4	64742-82-1	<50 %	Xn ,N	R-10, 51/53, 65, 66

See section 16 for explanations of R-phrases :

### 4. FIRST AID MEASURES

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

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.
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 Get medical attention immediately!
Skin contact :	Immediately remove all soiled or stained clothing. Wash the affected area immediately and repeatedly with soap and water.
Eye contact :	Keep eyes open and rinse immediately and repeatedly with water for at least 15 minutes.
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

Extinguishing media :	- suitable: Foam, carbon dioxide (CO <sub>2</sub> ), powder. - not recommended: Do not use water jets (stick jets) for extinguishing fire, as this may help the spread of flames.
Specific hazards :	Vapours can build explosive mixtures with air. Vapours are heavier than air and may spread on the ground to sources of ignition.
Hazardous combustion products :	Incomplete combustion and thermolysis may produce potentially toxic gases such as carbon monoxide and carbon dioxide. However, this potential danger arises only after all the water contained in the product has evaporated due to a fire or accidental spill onto a very hot surface.
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.

## Safety Data Sheet

Product name :

OSYRIS HLS 4

Page : 3/8

SDS n° :31439-33

Version :4.01

Version of : 2008-11-09

This sheet supersedes the one dated : 2003-08-22

### 6. ACCIDENTAL RELEASE MEASURES

Personal protection : See sections 8 and 13.

After spillage / leakage :

- On land:  
Surfaces on which the product has been spilled may become slippery.  
Do not allow the product to enter sewers or rivers or contaminate the soil.  
Recover with mechanical means such as pumps and skimmers.
- On water:  
Floating absorbant material, then mechanical recovery.  
If the product has penetrated into a river or a sewer, notify the authorities.

### 7. HANDLING AND STORAGE

#### HANDLING :

Prevention of user exposure : Ventilate extensively if the formation of vapours, fumes, mists or aerosol is a risk.  
Make all the necessary arrangements in order to reduce exposure risk, notably to products in use or to wastes.  
Keep away from combustible substances; keep away from food and beverages.

Prevention of fire and explosion : Empty containers may contain flammable or explosive vapours.  
There is a fire hazard associated with rags, paper or any other material used to remove spills which become soaked with product.  
Avoid accumulation of these: they are to be disposed off safely after use.  
Handle away from any source of ignition and heat.

Precautions : Do not eat or drink or smoke during use.

#### STORAGE :

Technical measures : Make the necessary arrangements to prevent water and soil pollution.

Storage precautions :

- Suitable:  
Store at ambient temperature, protected against contact with water and moisture, and away from any source of ignition.  
Store below 25°C.
- To be avoided:  
Do not store exposed to the elements.

Incompatible products : Dangerous reaction with strong oxidizing agents.

Packaging materials :

- Recommended:  
Keep in original container if possible.  
Use only hydrocarbon-resistant containers, joints, pipes, etc.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Technical measures : Use the product in a properly ventilated atmosphere.  
When working on enclosed place (tanks, reservoirs...), make sure that atmosphere is not suffocating and/or wear recommended equipment.

Occupational exposure limit :

- . oil mist : 10mg/m3, for 15 minutes
- . oil mist : 5mg/m3, for 8 hours

Respiratory protection : Use respiratory breathing apparatus approved for organic vapours and mists when entering.  
confined areas,  
places that are difficult to ventilate,  
areas where there is a risk of overexposure to vapours.  
Gas cartridge (organic gases, filter A).

## Safety Data Sheet

Product name :

OSYRIS HLS 4

Page : 4/8

SDS n° :31439-33

Version :4.01

Version of : 2008-11-09

This sheet supersedes the one dated : 2003-08-22

Hand protection :

Impermeable hydrocarbon-proof gloves.  
recommended material: nitrile , neoprene.  
The break through times of the same type of glove of different manufacturers can be very different - even if the layer thickness is similar. Therefore the break through times have to be found out from the manufacturer of the protective gloves themselves.  
The demands on the gloves are determined by the conditions in practice (e.g. multiple use, mechanical load, temperature, strength and duration of exposition).  
Before choosing suitable gloves, it is recommended that the user tests the gloves.

Eye protection :

Goggles, in case of risk of splashing.

Skin and body (other than the hands) protection :

Depending on the requirements, face mask, boots, product resistant clothing, safety shoes (drum handling).  
Long sleeve shirts are recommended.  
Don't wear rings, watches or anything similar which can retain the product and may give rise to skin conditions.

Hygienic work practices :

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 copiously with soap and water.  
Do not use abrasives, solvents or fuels.  
In case of contact with eyes, wash immediately in copious amounts of water while keeping eyelids spread apart for at least 15 minutes and consult a specialist.  
Do not dry hands with rags that have been contaminated with product.  
Do not put product contaminated rags into workwear pockets.  
Do not eat, drink or smoke whilst handling the product.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance :

Clear to slightly cloudy liquid

Colour :

Brown.

Odour :

Characteristic.

Density/specific gravity :

815 Kg/m<sup>3</sup>  
Temperature (°C) 20

Flash point :

38 °C CC (Closed cup).

Température d'auto-inflammation :

> 220 °C (ASTM E 659)

Flammability limit - lower(%) :

0.6

Flammability limit - upper(%) :

0.8

Partition coefficient (log Pow) :

Log Pow  
Temperature (°C) (20°C)

Viscosity :

< 7 mm<sup>2</sup>/s  
Temperature (°C) 40

### 10. STABILITY AND REACTIVITY

Stability :

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

Conditions to avoid :

Heat (temperatures above flash point), sparks, ignition points, flames, static electricity  
No dangerous reactions under normal conditions of use. Refer to Technical data sheet.

Materials to avoid :

Avoid contact with strong oxidizers

## Safety Data Sheet

Product name :

OSYRIS HLS 4

Page : 5/8

SDS n° :31439-33

Version :4.01

Version of : 2008-11-09

This sheet supersedes the one dated : 2003-08-22

### 11. TOXICOLOGICAL INFORMATION

Acute toxicity / Local effect :

Inhalation, comments:

Not classified according to the criteria of classification in force.  
Inhalation of high concentrations of vapour or aerosols may cause irritation of the upper respiratory tract.

Skin contact, comments:

Not classified according to the criteria of classification in force.

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).  
In case of ingestion of small quantities, no important effect observed. in case of ingestion of larger amounts: abdominal pain, diarrhea, ...

#### CHRONIC TOXICITY OR LONG-TERM TOXICITY :

Skin contact :

Characteristic skin affections (oil blisters) may develop following prolonged and repeated exposure through contact with stained clothing

Carcinogenicity :

According to the methods of classification of directive 1999/45/EC :  
This product is not classified carcinogenic.

### 12. ECOLOGICAL INFORMATION

Comments about ecotoxicity :

Experimental data on the finished product are not available.  
It is considered to present a little danger for aquatic life.  
no information available for used product

Mobility :

- Air:  
The product evaporates in the air and disperses to a degree, depending on local conditions  
- Water:  
Dispersible in water  
- Soil:  
Given its physical and chemical characteristics, the product is generally mobile in the ground  
The product spreads on the surface of the water.

### 13. DISPOSAL CONSIDERATIONS

Waste disposal :

Dispose of in a safe manner, in accordance with local regulations.  
If need be, collection by an authorised waste contractor and regeneration or incineration at an approved installation.

Waste class :

Industrial waste number EU  
12 01 09.  
The waste classification is dependant on the composition of the product at the time of disposal.  
The waste classification mentioned here represents only a recommendation. The waste producer is responsible for the correct specification of the waste. The specification of the waste classification should be in arrangement with the authorised waste disposal company.  
12 01 07  
12 01 09.

Disposal of contaminated packaging :

Proceed in compliance with the prevailing regulations.

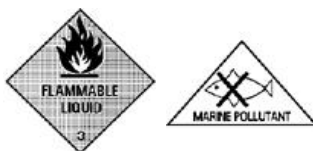
## Safety Data Sheet

<b>Product name :</b>	<b>OSYRIS HLS 4</b>	Page : 6/8
SDS n° :31439-33	Version :4.01	Version of : 2008-11-09
		This sheet supersedes the one dated : 2003-08-22

National regulations :	<p>List of wastes: OJEC L349 of 16.02.2001.          Law No. 75-633 of 15.07.75 amended, relative to the elimination of wastes and the recovery of materials.          Regulations concerning the collection of used oils:          Decree 79-981 of 21.11.79 and rules of 28.01.99 relative to their collection and the conditions for their elimination.          Law No. 88-1261 of 30.12.88 concerning the import, export and transit of wastes.          Decree No. 77-254 of 08.03.77 relative to the regulation for the dumping of oils and lubricants into surface waters.</p>
------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

### 14. TRANSPORT INFORMATION

UN Number :	3295
Proper shipping name (national) :	Hydrocarbures liquides, n.s.a. (Contient: Naphta lour hydrotraité)
Proper shipping name (international) :	Hydrocarbons, liquid, n.o.s. (Contains: Heavy hydrotraited naphta)
Label for conveyance :	



Road (ADR) / Rail (RID) :	
Class :	3
Code de classification :	F1
Hazard Label(s) :	3
Hazard identification number :	30
Packing Group :	III
Transport by barge (ADNR) :	
Class :	3
Code de classification :	F1
Hazard Label(s) :	3
Packing Group :	III
Marine (IMO-IMDG) :	
Class :	3
Hazard Label(s) :	3
Marine pollutant :	Yes.
Packing Group :	III
Air (ICAO/IATA) :	
Class :	3
Hazard Label(s) :	3
Packing Group :	III

## Safety Data Sheet

**Product name :** OSYRIS HLS 4 Page : 7/8  
SDS n° :31439-33 Version :4.01 Version of : 2008-11-09  
This sheet supersedes the one dated : 2003-08-22

Special provisions : - ADR :  
274

### 15. REGULATORY INFORMATION

Symbol(s) :



Symbol(s) : Xn Harmful N Dangerous for the environment.  
Contains : Naphtha (petroleum), hydrodesulfurized heavy  
Risk phrases : R-10 Flammable.  
R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R-65 Harmful: may cause lung damage if swallowed.  
R-66 Repeated exposure may cause skin dryness or cracking.  
R-67 Vapours may cause drowsiness and dizziness.  
Safety phrases : S-16 Keep away from sources of ignition - No Smoking.  
S-23 Do not breathe gas/vapour/aerosol mist.  
S-24/25 Avoid contact with skin and eyes.  
S-61 Avoid release to the environment. Refer to special instructions/Safety Data Sheets.  
S-62 If swallowed, do not induce vomiting: seek medical advice immediately and show the container or label.  
EU directives : Hazardous preparations directive 1999/45/EC modified (Directive 2001/60/EC).  
This product fulfills the requirements of the European directives :  
76/769/EEC  
2000/53/EC  
2002/95/EC  
2002/96/EC  
2003/11/EC

### 16. OTHER INFORMATION

Explanations of R-phrases in section 2 : R-20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
R-36/38 Irritating to eyes and skin.  
R-10 Flammable.  
R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R-65 Harmful: may cause lung damage if swallowed.  
R-66 Repeated exposure may cause skin dryness or cracking.  
Revision date: 2008-11-09  
Supersedes the data sheet of: 2003-08-22  
\* Information revised since the previous version of the SDS :  
SDS No. : 06p-0j2yujf-17



## Safety Data Sheet

---

**Product name :**

**OSYRIS HLS 4**

Page : 8/8

SDS n° :31439-33

Version :4.01

Version of : 2008-11-09

This sheet supersedes the one dated : 2003-08-22

---

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 knowledge at the date indicated above. 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 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 fulfil 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.