



Safety Data Sheet

Product name :

HYDRAURINCAGE

Page: 1/6

FDS N°:32914-33

Version :3.00

Version of :2003-10-20

This sheet supersedes the one dated :1998-01-19

PRODUCT LABELS

LABELLING (standard or EU): Not concerned

R-phrases: None

S-phrases: None

TRANSPORT LABELLING: Not applicable.

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

Name of the product: HYDRAURINCAGE

Code No.: 510

Product application: Transmission oil

Supplier: TOTAL LUBRIFIANTS
Le Diamant B
16, rue de la République
92922 Paris La Défense - France
Tel: +33 (0)1 41 35 40 00
Fax: +33 (0)1 41 35 84 71

Emergency telephones: ORFILA / Tel: 01.45.42.59.59

See local details at end of sheet:

2. COMPOSITION/INFORMATION ON INGREDIENTS

PREPARATION

Chemical nature: Petroleum-derived severely refined mineral-base product in which the polycyclic aromatic hydrocarbons (PCA or PAH) content, measured by IP 346, is less than 3%

| Substances presenting a health hazard | EC No. | CAS No. | Content | Symbol(s) | R-phrases |
|---|-----------|---------|---------|-----------|-----------|
| Calcium sulfonate with long-chain alkaryl | 271-877-7 | | <0,8 % | Xi | R-43, 53 |
| Zinc alkaryl di-thiophosphate | 308-565-8 | | <0,8 % | N | R-51/53 |

See section 16 for explanations of R-phrases:

3. HAZARDS IDENTIFICATION

Health effects: Under normal conditions of use, the product holds no danger of intoxication

Environmental impact: Do not rejet this product into the environment

Physico-chemical hazards: No specific risk of fire or explosion under normal contitions of use

4. FIRST AID MEASURES

IN CASE OF SERIOUS OR PERSISTENT MANIFESTATIONS, 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.



Safety Data Sheet

Product name :

HYDRAURINCAGE

Page: 2/6

FDS N°:32914-33

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| 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 |
| Skin contact: | 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. 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 (CO₂), powder.
- not recommended:
do not use water jets (stick jets) for extinguishing fire since they could help to spread the flames.

Protective measures for firefighters:

Insulated breathing apparatus must be worn in confined premises with heavy concentrations of fumes and gases.

6. ACCIDENTAL RELEASE MEASURES

See sections 8 and 13.

After spillage / leakage:

- On the soil:
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.
Contain and collect the spilled product with sand or any other inert absorbant material.
 - On water:
Floating absorbant material, then mechanical recovery.
If the product is spilled in a river or in the sewers, notify the authorities of the possible presence of floating items.
-

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 combustive 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 accumulate of these: they are to be disposed off safely after use.

Precautions:

Avoid static electricity build up with connection to earth.
Set up machinery and equipment so as to avoid the risk of accidental spills or splashes onto hot machine parts and electrical contacts (on joint failure, for example).
. Oil leaks in a pressure circuit resulting in a fine inflammable spray (the flammability limit for oil mist is depressed when concentrations of about 45g/m³ are reached).

STORAGE:



Safety Data Sheet

Product name :

HYDRAURINCAGE

Page: 3/6

FDS N°:32914-33

Version :3.00

Version of :2003-10-20

This sheet supersedes the one dated :1998-01-19

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| Technical measures: | Make the necessary arrangements to prevent water and soil pollution. |
| Storage precautions: | . Suitable: Store at room temperature, protected against contact with water and moisture, and away from any source of ignition. Keep containers closed when not in use . 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

| | |
|--|--|
| 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 recommend equipment. |
| Occupational exposure limit: | . oil mist : 10mg/m ³ , for 15 minutes . oil mist : 5mg/m ³ , for 8 hours |
| Hand protection: | Impermeable hydrocarbon-proof gloves. recommended material: nitrile , neoprene. |
| Eye protection: | Goggles, in case of risk of splashing. |
| Skin and body (other than the hands) protection: | As required, wear a face mask, hydrocarbon-proof clothing, and safety boots (when handling drums). Don't wear ring, watch or similar thing which will be able to hold the product and may give rise to some skin diseases. |
| Hygienic work practices: | Avoid prolonged or repeated contact with the skin, particularly as regards used or waste oil. 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. Use no abrasives, solvents or fuels. Do not use cloths stained with the product to dry hands. Dont put the product-soaked rags in the pockets of working clothes. Do not eat, drink or smoke while handling the product. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------------------------|--|
| Appearance: | Liquid. |
| Colour: | Yellow to amber. |
| Odour: | Characteristic |
| Density/specific gravity: | 838 Kg/m ³ Temperature (°C) 15 |
| Flash point: | > 110 ° C (ISO 2592) |
| Température d'auto-inflammation: | > 250 ° C (ASTM E 659) |
| Comments on autoignition temperature: | This temperature may be significantly lower under particular conditions (slow oxidation on finely divided materials...). |
| Comments on explosivity: | The lower flammable limit of oil mist is reached at concentrations in the range of 45 g/m ³ . |



Safety Data Sheet

Product name :

HYDRAURINCAGE

Page: 4/6

FDS N°:32914-33

Version :3.00

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Solubility: - in water:
Insoluble and immiscible.
- in organic solvents:
Soluble in many common solvents.

Partition coefficient (log Pow): Log Pow > 6
Temperature (°C) (20°C)

Viscosity: 18.7 mm²/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

Materials to avoid: Avoid contact with strong oxidizing

Hazardous decomp. products: Incomplete combustion and thermolysis produce more or less toxic gases such as CO, CO₂, various hydrocarbons, aldehydes and soot.

11. TOXICOLOGICAL INFORMATION

Acute toxicity / Local effect:

Inhalation, comments: - Inhalation :
Risk is improbable under normal conditions of use
Inhalation of important concentration of vapour or aerosols may cause irritation of the upper respiratory tract.

Skin contact, comments: - Contact with skin :
Risk is improbable under normal conditions of use.
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

Ingestion, comments: - Ingestion :
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

Sensitization: To our knowledge, the product does not cause aggravated sensitivity.

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:
there is a slow loss by evaporation.
- 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



Safety Data Sheet

Product name :

HYDRAURINCAGE

Page: 5/6

FDS N°:32914-33

Version :3.00

Version of :2003-10-20

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Persistence and degradability:

No experimental information about the finished product.
However the "mineral oil" fraction of the new product is intrinsically biodegradable.
Some components of the product may not be biodegradable.

13. DISPOSAL CONSIDERATIONS

Waste disposal:

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

Waste class:

13 01 06 (hydraulic oils containing only mineral oil)).

Disposal of contaminated packaging:

Proceed in compliance with the prevailing regulations.

National regulations:

* France
List of wastes: JOCE 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.

14. TRANSPORT INFORMATION

Not concerned by the regulatory below.

Road (ADR) / Rail (RID):

Class:

Not restricted for transport.

Transport by barge (ADNR):

Marine (IMO-IMDG):

Air (ICAO/IATA):

15. REGULATORY INFORMATION

None

Risk phrases:

None

Safety phrases:

None

Other:

- Contains:
Calcium sulfonate with long-chain alkaryl
Can start an allergic reaction.

EU directives:

Hazardous preparations directive 1999/45/EC modified (Directive 2001/60/EC).

Social Security code:

- Art. L 461-6, Art. D 461-1, appendix A, No. 601.
Table of occupational illnesses and diseases No. 36

Labor code:

- Art. R 241-50, decree of 07.11.1977.



Safety Data Sheet

Product name :

HYDRAURINCAGE

Page: 6/6

FDS N°:32914-33

Version :3.00

Version of :2003-10-20

This sheet supersedes the one dated :1998-01-19

16. OTHER INFORMATION

For France, in case of poisoning call the Antipoison Centre (if possible in your area) and/or the SAMU (15), see ORFILA number below - Tel : Angers 02.41.48.21.21 - Bordeaux 05.56.96.40.80 - Lille 03.20.44.44.44 - Lyon 04.72.11.69.11 - Marseille 04.91.75.25.25 - Nancy 03.83.32.36.36 - Paris 01.40.05.48.48 - Rennes 02.99.59.22.22 - Strasbourg 03.88.37.37.37 - Toulouse 05.61.77.74.47

This sheet is in compliance with the standards defined by the directives 91/155/CEE, 93/112/CEE, 2001/58/CE and the article 14 of the directive 1999/45/EC.

Explanations of R-phrases in section 2:

R-43 May cause sensitization by skin contact.

R-53 May cause long-term adverse effects in aquatic environments.

R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Revision date:

2003-10-20

Supersedes the data sheet of:

1998-01-19

* Information revised since the previous version of the SDS:

SDS No.:

02L-0J2YUJF-09

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.