



## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 32914

# HYDRAURINCAGE

Date of the previous version: 2015-05-04

Revision Date: 2016-06-06

Version 6

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

<b>Product name</b>	<b>HYDRAURINCAGE</b>
<b>Number</b>	510
<b>Substance/mixture</b>	Mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

<b>Identified uses</b>	Hydraulic Fluid.
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### 1.3. Details of the supplier of the safety data sheet

<b>Supplier</b>	<p>A - TOTAL BELGIUM            Handelsstraat, 93, Rue du Commerce            B-1040 BRUSSEL - BRUXELLES            België - Belgique            Tel : +32 (0)22 889 933            Fax : +32 (0)22 883 260</p>
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<p>B - TOTAL LUBRIFIANTS            562 Avenue du Parc de L'île            92029 Nanterre Cedex            FRANCE            Tél: +33 (0)1 41 35 40 00            Fax: +33 (0)1 41 35 84 71***</p>
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#### For further information, please contact:

##### **Responsible/issuing person**

Contact Point	A - HSE
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	B - HSE***
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E-mail Address	A - <a href="mailto:rm.be-reach-belgium-msds@total.com">rm.be-reach-belgium-msds@total.com</a>
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	B - <a href="mailto:rm.msds-lubs@total.com">rm.msds-lubs@total.com</a> ***
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### 1.4. Emergency telephone number

Official National Emergency Number:

Teleserv S.O.S Total Belgium : +32 (0)78 15 51 51

On duty staff in Ertvelde (Lub): +32 (0)475 66 07 77

Burns Centers:

Bruxelles - (NOH) - Brussel : +32 (0)2 264 48 48, Hopital Militaire Reine Astrid - Militair Hospitaal Koningin Astrid

Antwerpen - Anvers : +32 (0)3 217 71 11, Algemeen centrum Ziekenhuis

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Gent - Gand : +32 (0)9 240 34 90 Centre Universitaire UZ Gand-Universitair Ziekenhuis UZ Gent  
 Leuven - Louvain : +32 (0)16 34 87 50 U.Z. Leuven  
 Loverval : +32 (0)71 44 80 00, Hôpital Saint Joseph et Sainte Thérèse, section I.M.T.R  
 Luik - Liège : +32 (0)4 366 72 94, CHU Liège domaine Universitaire du Sart Tilman

Poison center:

c/o Hôpital Militaire Reine Astrid  
 Militair Hospitaal Koningin Astrid  
 1 Rue Bruyn - Bruynstraat 1  
 B-1120 Bruxelles - Brussel  
 +32 (0)70 245 245

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

#### REGULATION (EC) No 1272/2008

*For the full text of the H-Statements mentioned in this Section, see Section 2.2.*

#### Classification

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008  
 Aspiration toxicity - Category 1 - (H304)

### 2.2. Label elements

**Labelled according to** REGULATION (EC) No 1272/2008

Contains Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics, White mineral oil (petroleum)



#### Signal Word

DANGER

#### Hazard Statements

H304 - May be fatal if swallowed and enters airways

#### Precautionary statements

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTRE/doctor  
 P331 - Do NOT induce vomiting

Contains Calcium long chain alkarylsulphonate May produce an allergic reaction

### 2.3. Other hazards

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**Physical-Chemical Properties** Contaminated surfaces will be extremely slippery.

**Environmental properties** Should not be released into the environment.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixture

#### Hazardous components

Chemical Name	EC-No	REACH Registration Number	CAS-No	Weight %	GHS Classification
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	265-148-2***	01-2119826592-36	^	< 40	Asp. Tox. 1 (H304)
White mineral oil (petroleum)	232-455-8***	no data available	8042-47-5	< 10	Asp. Tox. 1 (H304)
Calcium long chain alkarylsulphonate	-	-	722503-69-7	< 0.99	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)

**Additional information** Product containing mineral oil with less than 3% DMSO extract as measured by IP 346.

**For the full text of the H-Statements mentioned in this Section, see Section 16.**

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>General advice</b>	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids.
<b>Skin contact</b>	Remove contaminated clothing and shoes. Wash skin with soap and water. Wash contaminated clothing before reuse. High pressure jets may cause skin damage. In this case, the casualty should be sent immediately to hospital.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Eye contact</b>	Not classified.
<b>Skin contact</b>	Not classified. May produce an allergic reaction. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
<b>Inhalation</b>	Aspiration into lungs can produce severe lung damage.

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**Ingestion** Harmful: If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious inhalation pulmonary lesions (medical survey during 48 hours). Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

#### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** Treat symptomatically.

### Section 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

**Suitable extinguishing media** Carbon dioxide (CO<sub>2</sub>). ABC powder. Foam. Water spray or fog.

**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.

#### 5.2. Special hazards arising from the substance or mixture

**Special hazard** 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 in confined spaces or at high concentration.

#### 5.3. Precautions for fire-fighters

**Special protective equipment for fire-fighters** Wear self-contained breathing apparatus and protective suit.

**Other information** Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### Section 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

**General Information** Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

#### 6.2. Environmental precautions

**General Information** Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

#### 6.3. Methods and materials for containment and cleaning up

**Methods for cleaning up** Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according

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to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

**Personal protective equipment** See Section 8 for more detail.

**Waste treatment** See section 13.

### Section 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

**Advice on safe handling** When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.

**Prevention of fire and explosion** Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment.

**Hygiene measures** Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Technical measures/Storage conditions** Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Preferably keep in the original container. Otherwise, reproduce all the statutory information from the labels onto the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture.

**Materials to avoid** Strong oxidising agents.

#### 7.3. Specific use(s)

**Specific use(s)** No information available.

### Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1. Control parametres

**Exposure limits** Mineral oil mist:  
USA: OSHA (PEL) TWA 5 mg/m<sup>3</sup>, NIOSH (REL) TWA 5 mg/m<sup>3</sup>, STEL 10 mg/m<sup>3</sup>, ACGIH (TLV) TWA 5 mg/m<sup>3</sup> (highly refined)

**Legend** See section 16

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## 8.2. Exposure controls

### Occupational Exposure Controls

#### Engineering measures

Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

#### Personal protective equipment

##### General Information

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

##### Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387), Type A/P2. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

##### Eye protection

If splashes are likely to occur, wear: Safety glasses with side-shields.

##### Skin and body protection

Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.

##### Hand protection

Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves.

### Environmental exposure controls

#### General Information

The product should not be allowed to enter drains, water courses or the soil.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Colour	yellow to amber
Physical state @20°C	Liquid
Odour	characteristic
Odour Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH		Not applicable	
Melting point/range		No information available	
Boiling point/boiling range		Not applicable	
Flash point	> 110 °C > 230 °F		ISO 2592 ISO 2592

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<b>Evapouration rate</b>		No information available	
<b>Flammability Limits in Air</b>		No information available	
<b>Vapour pressure</b>		No information available	
<b>Vapour density</b>		No information available	
<b>Relative density</b>		No information available	
<b>Density</b>	851 kg/m <sup>3</sup>		
<b>Water solubility</b>		Insoluble	
<b>Solubility in other solvents</b>		No information available	
<b>logPow</b>		No information available	
<b>Autoignition temperature</b>		No information available	
<b>Decomposition temperature</b>		No information available	
<b>Viscosity, kinematic</b>	17.7 - 19.7 mm <sup>2</sup> /s	@ 40 °C	ISO 3104
<b>Explosive properties</b>	Not explosive		
<b>Oxidising properties</b>	Not applicable		
<b>Possibility of hazardous reactions</b>	Not applicable		

## 9.2. Other information

**Freezing point** No information available

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

**General Information** No information available.

### 10.2. Chemical stability

**Stability** Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions** None under normal processing.

### 10.4. Conditions to Avoid

**Conditions to Avoid** Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents.

### 10.6. Hazardous Decomposition Products

**Hazardous Decomposition Products** None under normal use.

## Section 11: TOXICOLOGICAL INFORMATION

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## 11.1. Information on toxicological effects

### Acute toxicity Local effects Product Information

<b>Skin contact</b>	. Not classified. May produce an allergic reaction. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
<b>Eye contact</b>	. Not classified.
<b>Inhalation</b>	. Aspiration into lungs can produce severe lung damage.
<b>Ingestion</b>	. Harmful: If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious inhalation pulmonary lesions (medical survey during 48 hours). Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
<b>ATEmix (oral)</b>	13,960.00 mg/kg
<b>ATEmix (dermal)</b>	13,960.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	14.70 mg/l

### Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	LD50 > 5000 mg/kg bw (rat - OECD 401)	LD50 (24h) > 3160mg/kg bw (rabbit - OECD 402)	LC50 (4h) > 5266 mg/m <sup>3</sup> (aerosol) (rat - OECD 403)
White mineral oil (petroleum)	> 5000 mg/kg ( Rat )	LD50 > 2000 mg/kg (Rabbit - OECD 402)	LC50 (4h) > 5 mg/l (Rat - aerosol - OECD 403)

### Sensitisation

**Sensitisation** Not classified as a sensitizer. Contains sensitizer(s). May produce an allergic reaction.

### Specific effects

**Carcinogenicity** This product is not classified carcinogenic.  
**Mutagenicity** This product is not classified as mutagenic.  
**Reproductive toxicity** This product does not present any known or suspected reproductive hazards.

### Repeated Dose Toxicity

**Subchronic Toxicity** No information available.

### Target Organ Effects (STOT)

**Target Organ Effects (STOT)** No information available.

### Other information

**Other adverse effects** Characteristic skin lesions (oil blisters) may develop following prolonged and repeated exposures (contact with contaminated clothing).

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Not classified.

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**Acute aquatic toxicity - Product Information**

No information available.

**Acute aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics ^	ErL50 (72h) > 10000 mg/l (Skeletonema costatum - ISO 10253)	LL50 (48h) > 3193 mg/l (Acartia tonsa - ISO 14669)	LL50 (96h) > 1028 mg/l (Scophthalmus maximus - OECD 203)	
White mineral oil (petroleum) 8042-47-5			LC50 (96h) > 10000 mg/L Lepomis macrochirus ()	

**Chronic aquatic toxicity - Product Information**

No information available.

**Chronic aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics ^		NOELR (21d) > 1000 mg/l (Daphnia magna - QSAR Petrotox)	NOELR (28d) > 1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox)	

**Effects on terrestrial organisms**

No information available.

**12.2. Persistence and Degradability****General Information**

No information available.

**12.3. Bioaccumulative potential****Product Information** No information available.**logPow** No information available**Component Information**

Chemical Name	log Pow
White mineral oil (petroleum) - 8042-47-5	6

**12.4. Mobility in soil****Soil**

Given its physical and chemical characteristics, the product generally shows low soil mobility.

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<b>Air</b>	Loss by evaporation is limited.
<b>Water</b>	Insoluble. The product spreads on the surface of the water.

## 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** No information available.

## 12.6. Other adverse effects

**General Information** No information available.

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

<b>Waste from residues / unused products</b>	Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EWC Waste Disposal No</b>	The following Waste Codes are only suggestions: 13 01 10. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

## Section 14: TRANSPORT INFORMATION

<u>ADR/RID</u>	not regulated
<u>IMDG/IMO</u>	not regulated
<u>ICAO/IATA</u>	not regulated
<u>ADN</u>	not regulated

## Section 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

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International Inventories No information available

Further information

No information available

## 15.2. Chemical Safety Assessment

**Chemical Safety Assessment** No information available

## 15.3. National regulatory information

### Belgium

- Avoid exceeding occupational exposure limits (see section 8).

## Section 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3

H317 - May cause an allergic skin reaction

H413 - May cause long lasting harmful effects to aquatic life

H304 - May be fatal if swallowed and enters airways

### Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

dw = dry weight

fw = fresh water

mw = marine water

or = occasional release

### Legend Section 8

TWA: Time Weight Average

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STEL: Short Time Exposure Limit

+	Sensitiser	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction

Revision Date: 2016-06-06

Revision Note \*\*\* Indicates updated section.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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.

End of Safety Data Sheet

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