

**HEXOL LUBE SRL****MATERIAL SAFETY DATA SHEET**  
According to 1907/2006 (REACH), 2020/878 (EU)  
**Hexol Lichid de Frână DOT4**

Date: 26.05.2022

Edition: 1

Revision: 2

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**1. Identification of the mixture and of the company/undertaking**1.1 Product identifier: **Hexol Lichid de Frână DOT4**

1.2 Relevant identified uses of the mixture and uses advised against

Relevant identified uses: Brake fluid.

Restrictions on use: any other uses not recommended are forbidden.

1.3 Details of the supplier of the safety data sheet:

S.C. HEXOL LUBE S.R.L.

Adress: Paleu commune, Ardealului street, no. 1A, Bihor county

Phone/Fax: +4 0259 449 203/+4 0259 428 299

E-mail: office@hexol.com

1.4 Emergency telephone number

Phone: +4 0259 454 216; +4 0259 449 203; 8-16h on workdays.

**2. Hazards' identification**

2.1 Classification of the mixture

Classification of the mixture according to Regulation 1272/2008/EC

Not required.

2.2 Label elements: Labelling according to Regulation 1272/2008/EC

Product identification: Trade name: **Hexol Lichid de Frână DOT4**

GHS Pictogram:



GHS07



GHS08

Hazard statement:

H 318: Causes serious eye damage.

Precautionary statements:

P262: Do not get in eyes, on skin, or on clothing.

P501: Dispose of contents/container in accordance with national regulation.

2.3 Other hazards:

Hazard description: If usual precautions are taken when handling products, the instructions for handling (Chapter 7) and personal protection (Chapter 8) are respected, there are no known hazards.

**3. Composition/information on ingredients**

3.2 Mixtures

Name	EINECS No.	Cas No.	REACH No.	Hazard statements	Conc. %
Tris[2-[2-(2-methoxyethoxy)ethoxy]ethyl]orthoborate	250-418-4	30989-05-0	01-2119462824-33-0006	H318	35-75%
2-(2-methoxyethoxy)ethanol	203-906-6	111-77-3	01-2119475100-52-0008	H361	0.4-1.5%
Methyl-1H-benzotriazole	249-596-6	29385-43-1	01-2119979081-35	H302	< 0.1 %
2,6-di-tert-butyl-p-cresol	204-881-4	128-37-0	01-2119555270-46	H335	< 0.1 %



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\*: with exposure limit

For full text of each relevant R-, H- phrase and Hazard classes and cat. see Section 16.

#### 4. First aid measures

##### 4.1 Description of first aid measures

General advice: Remove victim from exposure site. Ensure that the person has fresh air. Lay person in lateral, stable position and keep warm. In case of irregular breathing or respiratory arrest apply artificial respiration.

First aid responders must avoid exposure. Proper respiratory protection will be used. In case of respiratory arrest mechanical ventilation should be provided. Do not use mouth to mouth resuscitation. Remove all contaminated clothing immediately.

Inhalation: In case of accident by inhalation, transport the victim out of the contaminated area and leave to rest. If symptoms persist, seek medical advice.

Skin contact: Remove contaminated clothing and wash the skin thoroughly with soap and water. If symptoms persist, seek medical advice.

Eye contact: Wash thoroughly with water for at least 10 minutes. If symptoms persist, seek medical advice.

After ingestion: An unconscious person should never be forced to swallow. Vomiting will not be induced. Seek medical advice immediately.

##### 4.2 Most important symptoms and effects, both acute and delayed - **No data available.**

##### 4.3 Indication of any immediate medical attention and special treatment needed

If swallowed, immediate medical attention is required: 2 hours, gastrolavage, etc.

#### 5. Fire-fighting measures

##### 5.1 Fire extinguishing equipment

Suitable fire-extinguishing equipment: Use alcohol resistant foam, carbon dioxide, dry powder, water and sand dispersants.

Unsuitable extinguishing media: No data.

##### 5.2 Special hazards arising from the mixture

Hazardous combustion products: in case of fires carbon dioxide, carbon monoxide, sulphur oxides, phosphor oxides, various hydrocarbons and soot can be formed.

##### 5.3 Recommendations for firefighters

In case of fires self-contained breathing apparatus will be used. Special protective equipment: According to the existing firefighting regulations.

Further information:

Cool containers and surroundings exposed to fire with water spray.

#### 6. Accidental release measures

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

Use personal protective equipment. Keep away people without protective equipment or untrained people. Avoid contact with skin and eyes. Avoid breathing vapours or spray mist. Wear respiratory protective equipment.

Personal precautions: see Section 8.

##### 6.2 Environmental precautions:

Confine spills to prevent material from entering sewers, watercourses, drains and into soil. In case of environmental release notify relevant authority.

##### 6.3 Methods and material for fire containment and cleaning up

On soil: Eliminate all ignition sources. Collect spillage. Contain the rest or small quantities using absorbent materials: sand, earth or other suitable absorbents. Dispose of materials and solid residues



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according to local regulations.

In water: Confine the spillage. Remove from surface by skimming or suitable absorbents.

Notify local authorities according to regulations.

#### 6.4 Reference to other sections

Personal precautions: see section 8. Waste treatment methods: see section 13.

### 7. Handling and storage

#### 7.1 Precautions for safe handling

Keep general measures applied for normal operations with chemicals and flammable liquids. Adequate ventilation required.

Protective measures: wear personal protective equipment. Avoid contact with skin and eyes. In case vapours and mist is formed respiratory equipment with a suitable filter will be used. Do not spill the product.

Hygiene measures: Smoking, eating and drinking are prohibited in the area where the product is used. Wash hands before breaks and at the end of the work schedule. Wear oil resistant footwear and protective gloves. Wash contaminated clothing with soap and water.

Fire prevention measures: Keep away from heat and other sources of ignition.

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

Storage facilities must comply with regulations for storing of flammable liquids. Store in dry, well-ventilated place in original, closed containers. Keep away from radiant heat, open flame and strong oxidizing agents. Storage temperature: Stable if kept between -13°C - +40°C.

#### 7.3 Specific end use(s)

Recommendations: Brake fluid.

### 8. Exposure controls / personal protection

Engineering control measures: Not required.

#### 8.1 Control parameters:

Ethanediol: Eight hours: 52 mg/m<sup>3</sup>  
Short term: 104 mg/m<sup>3</sup>

#### 8.2 Exposure controls

Technical measures: see protection measures – Paragraph 7

Personal protective equipment:

Skin and body protection: Prolonged and repeated contact with skin should be avoided. Otherwise protective measures should be taken. Soaked clothing and shoes must be changed immediately. Wash skin immediately after work. Do not place dirty or wet rags in pockets.

Respiratory protection: In case of exposure above the permissible concentration limit, wear suitable respiratory equipment.

Hand protection: Protective gloves.

Eye protection: Chemical goggles.

#### 8.3 Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater. If the product contaminates rivers, lakes or sewers, the competent authorities shall be notified in accordance with the legal provisions in force. If the product has infested the environment, inform immediately the competent authorities

### 9. Physical and chemical properties

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

Appearance: liquid



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Colour:	clear fluid
Odour:	odorless
Odour threshold:	no
pH	7-11.5
Melting point:	not applicable
Pour point:	- 70 °C
Boiling point:	250-265 °C
Flash point:	125 °C
Evaporation rate:	not applicable
Flammability:	no data
Upper flammability limit:	no
Lower flammability limit:	no
Vapour pressure at 20°C:	no
Vapour density:	no
Relative density at 15°C:	~ 1.07 g/cm <sup>3</sup>
Solubility in water at 20°C:	soluble in water
n-Octanol/water partition coefficient:	not applicable
Autoignition temperature:	246 °C
Decomposition temperature:	not applicable
Kinematic viscosity at 40°C:	≤ 1800 mm <sup>2</sup> /s
Explosive properties:	no
Oxidizing properties:	may oxidize

9.2 Other information: no data available  
No data available soluble.

## 10. Stability and reactivity

10.1 Reactivity: Dangerous reactivity not known.

10.2 Chemical stability: No decomposition if stored and handled properly.

10.3 Possibility of hazardous reactions: Not known.

10.4 Conditions to avoid: Direct heat or ignition sources.

10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition products: No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5.

Nota: Vapours of ethanediol heavier than air and form explosive mixture with air.

## 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

Oral: LD50 (rats) > 5000 mg/kg

Dermal: LD50 (rabbits) > 2000 mg/kg

Acute toxicity: irritation

Skin: not irritant

Eye: not irritant

Respiratory or skin sensitisation: not sensitising

Germ cell mutagenicity: not mutagen

Carcinogenicity: not known



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Reproductive toxicity: not known  
STOT-single exposure: not known  
STOT-repeated exposure: not known  
Aspiration hazard: not known.

**12. Ecological information****12.1 Toxicity**Oral: LD<sub>50</sub> (rats) > 5000mg/kg (based on components)Dermal: LD<sub>50</sub> (rabbits) > 2000 mg/kg (based on components)**12.2 Persistence and degradability: No data available.**

Biodegradability: No data available.

**12.3 Bio accumulative potential: No data available.****12.4 Mobility**

Mobility in soil: No data available.

Mobility in water: No data available.

**12.5 Results of PBT and vPvB assessment** Not required.**12.6 Other adverse effects**

Heavy metal content: None.

PCT, PCB and other chlorinated hydrocarbons: None.

Environmental effects: Avoid release into underground waters, surface water, sewers.

**13. Disposal considerations****13.1 Waste treatment methods****13.1.1 Product disposal / Packaging**

Wastes of the product or used oil should be treated as hazardous waste. EWC code: 16 01 13\*

Disposal must be in compliance with national and local regulations.

Packaging disposal: Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations. EWC code: 15 01 10\*

**13.1.2 Packaging containing residues of, or contaminated by dangerous substances.**

Disposal must be in compliance with national and local regulations.

**13.1.3 Wastewater: Quality of wastewater emitted to natural water must comply with national and local regulations. Sewer disposal is forbidden.****13.1.4 Other recommendations:**

Care should be taken in any case to ensure compliance with EC, national and local regulations.

It is the responsibility of the user to know all relevant national and local regulations.

**14. Transport information**

Land transport:

Road/ Railway ADR/RID: Not classified.

Waterways:

Inland waterways/ Sea transport ADN/IMDG: Not classified.

Air transport: ICAO / IATA: Not classified.

**15. Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the mixture.**



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Relevant Romanian regulation and EU directives

- Directive 94/33 / EC on the protection of young people at work.
- Directive 92/85 / EEC on the safety and health at work of pregnant women.
- Regulation (EC) No 1272/2008 [CLP]
- Law no. 360/2003 on the regime of dangerous chemical substances and mixtures.
- Law no. 263/2005 for the amendment, completion of Law no. 360/2003 regarding the regime of hazardous chemicals and preparations.
- GD 856/2002 On the record of waste management and the approval of the list containing waste, including hazardous waste.
- GD 188/2002 Approval of some norms regarding the discharge conditions of wastewaters in the aquatic environment
- GD 352/2005 Modification and completion of GD 188/2002 for the approval of some norms regarding conditions for the discharge of wastewater into the aquatic environment.
- GD 235/2007 Waste oils management.

15.2 Chemical safety assessment.

Not available

**16. Other information**

The full text of each relevant R-, H- phrase and Hazard classes and cat. in Sections 2 and 3:

P262: Do not get in eyes, on skin, or on clothing.

P501: Dispose of contents/container in accordance with national regulation.

H302: Harmful if swallowed.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

H361: Suspected of damaging fertility or the unborn child.

The information given in this data sheet is based on our best knowledge at the time of publication. This information is given for information purposes and is intended to assist its safe handling, storage, transport, distribution, proper safe use and disposal and therefore cannot be considered as a quality or guarantee certificate. The information refers only to the specified product and will not be valid when the product is combined with any other products or in any manufacturing process without express specification.

The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. It is the responsibility of the user to keep regulatory precautions and observe recommendations for safe use of the product.

